E&MJ ANNUAL INDEX 1998

VOLUME 199 NUMBERS 1 THROUGH 12

AUTHORS

ALLEN, JOHN A.
Sunshine Mine: Responding to Mineral Changes in Ore Feed.....Feb. 46

ANDREWS, A.J.
Worldwide Exploration Trends.....July 40

ANTHONY, MICHAEL
Molybdenum: An Oversupply on the Horizon?.....Mar. 54

ASTON, R. LEE
Assays from the Legal Vein..Jan. 32GG**, Feb. 56LL**, Mar. 32HH**, Apr. 32PP**, July 32HH**, Aug. 32OO**, Sept. 32SS**, Oct. 16LL**, Nov. 32NN**

BALLANTYNE, JOHN
ALPM at Asarco's Mission Complex Assembly Line Preventative Maintenance Works for Mission's Mobile Mining Complex.....May 62

BREUNIG, WILLIAM
Soda Ash: U.S. Production Sets Record Mar.64

BUNTING, ROBERT M.
Tungsten: Mine Capacity vs. Government Stockpiles.....Mar. 65

BUKSA, HARVEY
Stobie Signals Shotcrete Success.....Aug. 42

CARTER, RUSSELL A.
Exploring Electronic Commerce ....Sept. 46

CHRISTIAN, JEFFREY M.
PGM Group: The Year the Carousel Broke Down: Platinum and Palladium Take a Rough Ride in 1997.....Mar. 58

CLOW, BYRON
Magnesium: Record Shipments in 1997 ....Mar. 50

COPE, LOUIS W.
Ranking Polymetallic Projects.....June 35
Sage Mill: Patent Turns Waste to Ore ....Jan. 20

DEELO, MICHAEL L.
Lead: Reasonably Sound Fundamentals Growing Demand for Products.....Mar. 49

DOERELL, PETER E.
Coal: World Steam Coal Trade to Increase 66% by 2015.....Mar. 47

DYAS, KEITH
The Cresson Project: The Revival of Mining at Cripple Creek .....June 32KK**
Stillwater: Plans to Triple PGM Production by 2003 .....Dec. 20

EDWARDS, BUTCH
ALPM at Asarco's Mission Complex: Assembly Line Preventative Maintenance Works for Mission's Mobile Mining Complex .....May 62

ERICSSON, MAGNUS
Swedish Exploration & Mining in 1997 ....July 50

FENOULHET, B.
Worldwide Exploration Trends.....July 40

GAMBOGI, JOSEPH M.
Titanium: Surge in Demand from Commercial Aerospace .....Mar. 40

HALEY, IAN
The Original Sixteen to One Mine, Inc.: Mill Modifications to California's Oldest Gold Mine.....June 39

HARPER, G.
Worldwide Exploration Trends.....July 40

HENCHEK, CATHERINE
Bre-X: The Lure of False Gold.....June 42

HOBBS, ERIKA
The Shutdown of the U.S. Bureau of Mines: A Devastating Loss.....May 32QQ**

HOGAN, WILLIAM T.
Iron and Steel: A Historic Year for Steel... .....Mar. 74

HUDAK, PAUL F.
Depth to Bedrock in West-Central Nevada .....June 32EE**

JONES, THOMAS S.
Manganese: Steelmaking Is Still the Customer .....Mar. 52

KAISER, MARVIN K.
Silver: Less 'Precious' But More Valuable .....Mar. 62

KIELTY, EDWARD R.
Cobalt: Will Tomorrow Ever Come? ....Mar. 38

KLIMENKO, V.V.
Some Cooling to the Global Warming .....Feb. 56D*, 56XX**

KNECHT, J.
Design Features of an 8,000-kW SAG mill .....Feb. 37

KONYA, CALVIN J.
Drilling Blasting Forum: Post Shot Procedures.....Jan. 27

MARCUS, JERROLD J.
The Shutdown of the U.S. Bureau of Mines: A Devastating Loss.....May 32QQ**
The Cresson Project: The Revival of Mining at Cripple Creek .....June 32KK**
Mineral Policy Center: The Self-Appointed U.S. Environmental Watchdog ....Nov. 32D*, 32BBB**
Stillwater: Plans to Triple PGM Production by 2003 .....Dec. 20

MCLAUGHLIN, ROSEMARY
Diamonds from the Far North: Ekati becomes Canada's First Producer .....Aug. 34

MEW, MICHAEL
Phosphate Rock: Market Continues to Tighten.....Mar. 42

MURPHY, JOHN N.
Mine Safety: Highlights of the 27th International Conference on Safety in Mines Research Institutes .....May 32GG**

MURRAY, STEWART
Gold: Year of the Great Price Fall .....Mar. 35

MUSHINA, O.V.
Some Cooling to the Global Warming ....Feb. 56D*, 56XX**

NAVARRO, EDMUNDO TULCANAZA
Options for Hedging Mine Planning Scenarios To Meet Contingencies Part I.... .....May 56
Options for Hedging Mine Planning Scenarios To Meet Contingencies Part II .. ..June 36
Options for Hedging Mine Planning Scenarios To Meet Contingencies Part III .....July 46

O'HEARN, BRIAN
Stobie Signals Shotcrete Success .....Aug. 42

PHELPS, RICHARD W.
GPS-Now for Excavation: Morenci Improves Ore Control.....July 34
Leader of the Pack: Red Dog Mine 'Grows Up' .....May 34
Radomiro Tomic: A New Plant grows in the Atacama Desert .....Mar. 28
World-Class Competitive .....Apr. 34
A Second Down Under: Another Southern Hemisphere Factor — Argentina Rises ....Nov. 32J*, 32KKK**
Haulage Quality — Does Not Cost, It Pays: A Mine Manufacturer Partnership Pays Off .....Dec. 28

PLUNKERT, PATRICIA A.
Aluminum: Demand and Production Continue to Grow Steadily .....Mar. 46

POOL, THOMAS C.
Uranium: A Continuing Struggle for Producers.....Mar. 68

RANZE, W.
Design Features of an 8,000-kW SAG mill .....Feb. 37

SHUEY, SCOTT A.
Nordberg Expands: At the Milwaukee test center, the focus is on the process, not the hardware.....Feb. 43
São Bento: Eldorado's 1M-oz Brazilian Crown Jewel.....Oct. 28

SILVA R., ENRIQUE
Copper: Good Fundamentals But a Very Low Price .....Mar. 34

TEGEN, ANDREAS
Who Owns Whom in Mining 1998..Sept. 34

TIEN, JERRY C.
China's Two Major Modern Coal Projects. .....May 32A*

UPTON, DOUG
Nickel: Fallen on Hard Times .....Mar. 55

WALKER, SIMON
Stobie Signals Shotcrete Success.....Aug. 42

WERNIUK, GEORGE
Nugget Pond Mine: New Life in an Old District .....Apr. 46

WHITE, LANE
Australian Uranium Development: No Longer on the Back Burner.....Sept. 42
Randol Gold and Silver Forum '98: Cutting Capital Costs.....June 26

WYLLIE, ROBERT
Finnminers: Local Technology for Worldwide Application.....Oct. 18

XISHAN CHEN
Resuing Shrinkage Stoping.....Oct. 34

YATES, E.M. (TED)
Zinc: 1997 — A Year of Surprises ...Mar. 71

YELPI, LUIS ZENTENO
Options for Hedging Mine Planning Scenarios To Meet Contingencies Part I.... .....May 56
Options for Hedging Mine Planning Scenarios To Meet Contingencies Part II .. ..June 36
Options for Hedging Mine Planning Scenarios To Meet Contingencies Part III . .....July 46

TITLES

100 mt Au for the Millennium .....July 12
103rd Annual NWMA Meeting .....Feb. 18
1872 Mining Law needs minor alterations but not vast changes.....Sept. 32PP**
1997 steel shipments at highest level since 1974 .....Apr. 32JJ**
1998 Engineering and Mining Project Survey .....Jan. 15
67 dead in Russian mine blast....Jan. 32B*
AfriOre expands coal holdings..Oct. 16D*
After Kyoto: The Cost of Cutting Greenhouse Gas Emissions..... .....Oct. 16A*, 16AA**
AISI launches project on cost-effective, energy-efficient steel framing...Apr. 32FF**
Alaska students present mining project at national contest.....Aug. 32HH**
ALPM at Asarco's Mission Complex..... .....May 62
Aluminum.....Mar. 46
American Mining Hall of Fame holds banquet .....Mar. 32LL**
Anglogold/Anglo American Form African Exploration Ventures with Barrick .Nov. 9
Arch acquires ARCO coal assets ....Aug. 32A*
Argentina Mining '98 .....Apr. 18
Argentina Mining '98 Puts Mendoza on the Map.....Mar. 21
Argentina Puts Emphasis on Mining ....Apr. 17
Argentine Silver Project Accelerated..... .....Apr. 20
Asarco enters compliance initiative agreement with EPA.....Mar. 32BB**
Asarco receives NMA 'Excellence' award. .....Jan. 32CC
Ashton Raising $A70M for Diamond Projects.....Aug. 14
Assays from the Legal Vein..... Jan. 32GG**, Feb. 56LL**, Mar. 32HH**, Apr. 32PP, July 32HH**, Aug. 32OO**, Sept. 32SS**, Oct. 16LL**, Nov. 32NN**
Australian Nickel-Cobalt Project Changes Hands .....Sept. 15
Australian Uranium Development ..Sept. 42
Be Innovative, Adopt New Technology to Survive Global Economic Slump..Dec. 12
Bajo de la Alumbrera: Argentina's First Mining Mega-Project.....May 46
Battle Mountain recognized for public education role.....Feb. 56EE**
Being a Junior in Nevada.....Jan. 10
BHP sponsors National Public Lands Day 1997.....Jan. 32DD**
Boliden Expands its Presence in the Americas.....Mar. 14
Bre-X CEO Follows Geologist.....July 16
Bre-X: The Lure of False Gold.....June 43
Bureaucracy gone mad: Not only miners who feel its wrath .....Aug. 32EE**
Cameco Purchase Expands its U_3O_8 Production Reserves.....Oct. 12
Camese: Canada's Fast Track to the Mining Supply Industry .....Aug. 46
Cardinal River Coals receives approval for Cheviot mine .....Sept. 32G*
Celtic Energy and Glencore join WCI ....Oct. 16D*
China Lowers Domestic Gold Purchase Price .....Sept. 18
China's Two Major Modern Coal Projects .....May 32A*
CMA supports ranchers in wetlands suit ... .July 32FF**
Coal miners, companies reach deal ....Jan. 32B*
Coal mines to get help with safety standard compliance .....Jan. 32DD**
Coal mining community notified of problem in breathing device .....Jan. 32C*
Coal .....Mar. 47
Cobalt .....Mar. 38
Colorado's mineral and mineral fuel industries valued at $2.85 .....July 32FF**
Companies to pay millions in settlement of suits at Montana historic mining sites..... .....Oct. 16HH**
Congressional mining caucus formed..... .....Mar. 32BB**
Coping with Lower Gold Prices..... .....Mar. 16, Apr. 20
Copper .....Mar. 34
Corporation pleads guilty, mine safety standards violated .....Sept. 32GG**
CSM to offer mine safety and health training.....Feb. 56EE**
David A. Zegeer Coal Railroad Museum opens in Jenkins, Ky. ....Aug. 32D* Aug. 32EE**
Depth to Bedrock in West Central Nevada. .....June 32EE**
Design Features of an 8,000-kW SAG Mill .....Feb. 36
Device to monitor coal mine dust gets underground test .....Sept. 32F*
Diamonds from the Far North .....Aug. 34
Diavik Joint Venturers Outlines Project Planning .....May 22
DOE calls for proposals for energy-saving industrial technologies .....Sept. 32GG**
DOE funds R&D university projects ....July 32DD**, Sept. 32F*
Effort to end black lung forms U.S.-wide mine sweep .....Mar. 32B*
An El Niño Drubbing.....May 16
Employee guide still undergoing review ... .Oct. 16JJ**
The End of an Era for Gencor .....Nov. 10
EPA finalizes LDR rule for mineral processing wastes.....July 32DD**
Equipment for Exploration and Mine Design .....July 32RR**
Ernest Henry Starts Up in Queensland ....May 23
Europe's Biggest Mine Rehabilitation Project .....Feb. 40
Expanding Smelter Capacity .....Apr. 20

E&MJ ANNUAL INDEX 1998

VOLUME 199 NUMBERS 1 THROUGH 12

AUTHORS

ALLEN, JOHN A.
Sunshine Mine: Responding to Mineral Changes in Ore Feed.....Feb. 46

ANDREWS, A.J.
Worldwide Exploration Trends.....July 40

ANTHONY, MICHAEL
Molybdenum: An Oversupply on the Horizon?.....Mar. 54

ASTON, R. LEE
Assays from the Legal Vein..Jan. 32GG**, Feb. 56LL**, Mar. 32HH**, Apr. 32PP**, July 32HH**, Aug. 32OO**, Sept. 32SS**, Oct. 16LL**, Nov. 32NN**

BALLANTYNE, JOHN
ALPM at Asarco's Mission Complex Assembly Line Preventative Maintenance Works for Mission's Mobile Mining Complex.....May 62

BREUNIG, WILLIAM
Soda Ash: U.S. Production Sets Record Mar.64

BUNTING, ROBERT M.
Tungsten: Mine Capacity vs. Government Stockpiles.....Mar. 65

BUKSA, HARVEY
Stobie Signals Shotcrete Success.....Aug. 42

CARTER, RUSSELL A.
Exploring Electronic Commerce ....Sept. 46

CHRISTIAN, JEFFREY M.
PGM Group: The Year the Carousel Broke Down: Platinum and Palladium Take a Rough Ride in 1997.....Mar. 58

CLOW, BYRON
Magnesium: Record Shipments in 1997 ....Mar. 50

COPE, LOUIS W.
Ranking Polymetallic Projects.....June 35
Sage Mill: Patent Turns Waste to Ore ....Jan. 20

DEELO, MICHAEL L.
Lead: Reasonably Sound Fundamentals Growing Demand for Products.....Mar. 49

DOERELL, PETER E.
Coal: World Steam Coal Trade to Increase 66% by 2015.....Mar. 47

DYAS, KEITH
The Cresson Project: The Revival of Mining at Cripple Creek .....June 32KK**
Stillwater: Plans to Triple PGM Production by 2003 .....Dec. 20

EDWARDS, BUTCH
ALPM at Asarco's Mission Complex: Assembly Line Preventative Maintenance Works for Mission's Mobile Mining Complex .....May 62

ERICSSON, MAGNUS
Swedish Exploration & Mining in 1997 ....July 50

FENOULHET, B.
Worldwide Exploration Trends.....July 40

GAMBOGI, JOSEPH M.
Titanium: Surge in Demand from Commercial Aerospace .....Mar. 40

HALEY, IAN
The Original Sixteen to One Mine, Inc.: Mill Modifications to California's Oldest Gold Mine.....June 39

HARPER, G.
Worldwide Exploration Trends.....July 40

HENCHEK, CATHERINE
Bre-X: The Lure of False Gold.....June 42

HOBBS, ERIKA
The Shutdown of the U.S. Bureau of Mines: A Devastating Loss.....May 32QQ**

HOGAN, WILLIAM T.
Iron and Steel: A Historic Year for Steel... .....Mar. 74

HUDAK, PAUL F.
Depth to Bedrock in West-Central Nevada .....June 32EE**

JONES, THOMAS S.
Manganese: Steelmaking Is Still the Customer .....Mar. 52

KAISER, MARVIN K.
Silver: Less 'Precious' But More Valuable .....Mar. 62

KIELTY, EDWARD R.
Cobalt: Will Tomorrow Ever Come? ....Mar. 38

KLIMENKO, V.V.
Some Cooling to the Global Warming .....Feb. 56D*, 56XX**

KNECHT, J.
Design Features of an 8,000-kW SAG mill .....Feb. 37

KONYA, CALVIN J.
Drilling Blasting Forum: Post Shot Procedures.....Jan. 27

MARCUS, JERROLD J.
The Shutdown of the U.S. Bureau of Mines: A Devastating Loss.....May 32QQ**
The Cresson Project: The Revival of Mining at Cripple Creek .....June 32KK**
Mineral Policy Center: The Self-Appointed U.S. Environmental Watchdog ....Nov. 32D*, 32BBB**
Stillwater: Plans to Triple PGM Production by 2003 .....Dec. 20

MCLAUGHLIN, ROSEMARY
Diamonds from the Far North: Ekati becomes Canada's First Producer .....Aug. 34

MEW, MICHAEL
Phosphate Rock: Market Continues to Tighten.....Mar. 42

MURPHY, JOHN N.
Mine Safety: Highlights of the 27th International Conference on Safety in Mines Research Institutes .....May 32GG**

MURRAY, STEWART
Gold: Year of the Great Price Fall .....Mar. 35

MUSHINA, O.V.
Some Cooling to the Global Warming ....Feb. 56D*, 56XX**

NAVARRO, EDMUNDO TULCANAZA
Options for Hedging Mine Planning Scenarios To Meet Contingencies Part I.... .....May 56
Options for Hedging Mine Planning Scenarios To Meet Contingencies Part II .. ..June 36
Options for Hedging Mine Planning Scenarios To Meet Contingencies Part III .....July 46

O'HEARN, BRIAN
Stobie Signals Shotcrete Success .....Aug. 42

PHELPS, RICHARD W.
GPS-Now for Excavation: Morenci Improves Ore Control.....July 34
Leader of the Pack: Red Dog Mine 'Grows Up' .....May 34
Radomiro Tomic: A New Plant grows in the Atacama Desert .....Mar. 28
World-Class Competitive .....Apr. 34
A Second Down Under: Another Southern Hemisphere Factor — Argentina Rises ....Nov. 32J*, 32KKK**
Haulage Quality — Does Not Cost, It Pays: A Mine Manufacturer Partnership Pays Off .....Dec. 28

PLUNKERT, PATRICIA A.
Aluminum: Demand and Production Continue to Grow Steadily .....Mar. 46

POOL, THOMAS C.
Uranium: A Continuing Struggle for Producers.....Mar. 68

RANZE, W.
Design Features of an 8,000-kW SAG mill .....Feb. 37

SHUEY, SCOTT A.
Nordberg Expands: At the Milwaukee test center, the focus is on the process, not the hardware.....Feb. 43
São Bento: Eldorado's 1M-oz Brazilian Crown Jewel.....Oct. 28

SILVA R., ENRIQUE
Copper: Good Fundamentals But a Very Low Price .....Mar. 34

TEGEN, ANDREAS
Who Owns Whom in Mining 1998..Sept. 34

TIEN, JERRY C.
China's Two Major Modern Coal Projects. .....May 32A*

UPTON, DOUG
Nickel: Fallen on Hard Times .....Mar. 55

WALKER, SIMON
Stobie Signals Shotcrete Success.....Aug. 42

WERNIUK, GEORGE
Nugget Pond Mine: New Life in an Old District .....Apr. 46

WHITE, LANE
Australian Uranium Development: No Longer on the Back Burner.....Sept. 42
Randol Gold and Silver Forum '98: Cutting Capital Costs.....June 26

WYLLIE, ROBERT
Finnminers: Local Technology for Worldwide Application.....Oct. 18

XISHAN CHEN
Resuing Shrinkage Stoping.....Oct. 34

YATES, E.M. (TED)
Zinc: 1997 — A Year of Surprises ...Mar. 71

YELPI, LUIS ZENTENO
Options for Hedging Mine Planning Scenarios To Meet Contingencies Part I.... .....May 56
Options for Hedging Mine Planning Scenarios To Meet Contingencies Part II .. ..June 36
Options for Hedging Mine Planning Scenarios To Meet Contingencies Part III . .....July 46

TITLES

100 mt Au for the Millennium .....July 12
103rd Annual NWMA Meeting .....Feb. 18
1872 Mining Law needs minor alterations but not vast changes.....Sept. 32PP**
1997 steel shipments at highest level since 1974 .....Apr. 32JJ**
1998 Engineering and Mining Project Survey .....Jan. 15
67 dead in Russian mine blast....Jan. 32B*
AfriOre expands coal holdings..Oct. 16D*
After Kyoto: The Cost of Cutting Greenhouse Gas Emissions..... .....Oct. 16A*, 16AA**
AISI launches project on cost-effective, energy-efficient steel framing...Apr. 32FF**
Alaska students present mining project at national contest.....Aug. 32HH**
ALPM at Asarco's Mission Complex..... .....May 62
Aluminum.....Mar. 46
American Mining Hall of Fame holds banquet .....Mar. 32LL**
Anglogold/Anglo American Form African Exploration Ventures with Barrick .Nov. 9
Arch acquires ARCO coal assets ....Aug. 32A*
Argentina Mining '98 .....Apr. 18
Argentina Mining '98 Puts Mendoza on the Map.....Mar. 21
Argentina Puts Emphasis on Mining ....Apr. 17
Argentine Silver Project Accelerated..... .....Apr. 20
Asarco enters compliance initiative agreement with EPA.....Mar. 32BB**
Asarco receives NMA 'Excellence' award. .....Jan. 32CC
Ashton Raising $A70M for Diamond Projects.....Aug. 14
Assays from the Legal Vein..... Jan. 32GG**, Feb. 56LL**, Mar. 32HH**, Apr. 32PP, July 32HH**, Aug. 32OO**, Sept. 32SS**, Oct. 16LL**, Nov. 32NN**
Australian Nickel-Cobalt Project Changes Hands .....Sept. 15
Australian Uranium Development ..Sept. 42
Be Innovative, Adopt New Technology to Survive Global Economic Slump..Dec. 12
Bajo de la Alumbrera: Argentina's First Mining Mega-Project.....May 46
Battle Mountain recognized for public education role.....Feb. 56EE**
Being a Junior in Nevada.....Jan. 10
BHP sponsors National Public Lands Day 1997.....Jan. 32DD**
Boliden Expands its Presence in the Americas.....Mar. 14
Bre-X CEO Follows Geologist.....July 16
Bre-X: The Lure of False Gold.....June 43
Bureaucracy gone mad: Not only miners who feel its wrath .....Aug. 32EE**
Cameco Purchase Expands its U_3O_8 Production Reserves.....Oct. 12
Camese: Canada's Fast Track to the Mining Supply Industry .....Aug. 46
Cardinal River Coals receives approval for Cheviot mine .....Sept. 32G*
Celtic Energy and Glencore join WCI ....Oct. 16D*
China Lowers Domestic Gold Purchase Price .....Sept. 18
China's Two Major Modern Coal Projects .....May 32A*
CMA supports ranchers in wetlands suit ... .July 32FF**
Coal miners, companies reach deal ....Jan. 32B*
Coal mines to get help with safety standard compliance .....Jan. 32DD**
Coal mining community notified of problem in breathing device .....Jan. 32C*
Coal .....Mar. 47
Cobalt .....Mar. 38
Colorado's mineral and mineral fuel industries valued at $2.85 .....July 32FF**
Companies to pay millions in settlement of suits at Montana historic mining sites..... .....Oct. 16HH**
Congressional mining caucus formed..... .....Mar. 32BB**
Coping with Lower Gold Prices..... .....Mar. 16, Apr. 20
Copper .....Mar. 34
Corporation pleads guilty, mine safety standards violated .....Sept. 32GG**
CSM to offer mine safety and health training.....Feb. 56EE**
David A. Zegeer Coal Railroad Museum opens in Jenkins, Ky. ....Aug. 32D* Aug. 32EE**
Depth to Bedrock in West Central Nevada. .....June 32EE**
Design Features of an 8,000-kW SAG Mill .....Feb. 36
Device to monitor coal mine dust gets underground test .....Sept. 32F*
Diamonds from the Far North .....Aug. 34
Diavik Joint Venturers Outlines Project Planning .....May 22
DOE calls for proposals for energy-saving industrial technologies .....Sept. 32GG**
DOE funds R&D university projects ....July 32DD**, Sept. 32F*
Effort to end black lung forms U.S.-wide mine sweep .....Mar. 32B*
An El Niño Drubbing.....May 16
Employee guide still undergoing review ... .Oct. 16JJ**
The End of an Era for Gencor .....Nov. 10
EPA finalizes LDR rule for mineral processing wastes.....July 32DD**
Equipment for Exploration and Mine Design .....July 32RR**
Ernest Henry Starts Up in Queensland ....May 23
Europe's Biggest Mine Rehabilitation Project .....Feb. 40
Expanding Smelter Capacity .....Apr. 20

Exploration Downhill From Here On.Jan. 10
Exploring Electronic Commerce.....Sept. 46
Federal mine safety agency aims to improve miner training.....Sept. 32LL**
Figuring Out China's Gold Production Costs.....Sept. 16
Finnminers.....Oct. 18
Flexible policy, early credit keys to curbing energy emission.....Feb. 56FF**
FMC Corp. takes first place in National Mine Rescue Contest.....Sept. 32LL**
Franco-Nevada Buys Stake in Voisey's Bay.....Dec. 14
Freeport Revises Operating Plan....May 18
Frequent Internet use indicates rapid development of commerce.....Dec. 16OO**
Future of South American Exploration Rosy — Despite World Prices.....Apr. 18
Geological Society of Nevada wins award for publication.....Feb. 56EE**
Gold.....Mar. 35
Gold exploration drops in United States.....Dec. 16NN**
Gold Mines in Ghana.....June 10
Gold nugget that sparked the Gold Rush returns to California.....Mar. 32BB**
Governors east of Mississippi River band together to oppose NO_x plan .Apr. 32FF**
GPS — Now for Excavation.....July 34
Greenfields buys abandoned coal ponds, land.....July 32A*
Greenfields Coal Co. initiates ISO 14000..Jan. 32C*
Hall of Fame award goes to Jacobs Rance mine.....Aug. 32D*
Haulage Quality.....Dec. 28
A Heavy Metal Harvest for the Millennium.....Nov. 32B*
How mush 'bang' do big-name-university graduates really get for their buck?.....Nov. 32AA**
Inco Focuses on Low-cost Nickel Projects.....Jan. 10
Increases in engineering salaries decrease in 1997.....Mar. 32JJ**
Industrial commission approves two R&D projects.....July 32B*
Injury, illness data add up to progress.....Feb. 56FF**
Interns more likely to get hired..Apr. 32JJ**
Iron and Steel.....Mar. 74
Iscor Joins Hancock on Hope Downs Iron Ore Project.....Mar. 18
Judge Neil Reynolds to keynote Mining Hall of Fame.....Aug. 32HH**
Kennecott Energy reaches agreement to purchase Jacobs Ranch.....Sept. 32G*
Kinross-Amax Gold Merger Creates a Major Industry Player.....Apr. 17
Knight Piésold wins Engineering ExcellenceAward.....Apr. 32JJ**
Kyoto Protocol ratification will bring economic gloom to U.S.....Aug. 32A*
Last asbestos mine in the U.S. reports healthy workers, overseas markets.....Nov. 32FF**
Lead.....Mar. 49
Leader of the Pack.....May 34
Liebherr restructures U.S. product operating units.....May 32LL**
Luscar Becomes Canada's Largest Coal Producer.....Nov. 32P*
Mackay School of Mines' Burrus laboratory meets needs of industry...Apr. 32JJ**
Magnesium.....Mar. 50
Manganese.....Mar. 52
Material Handling.....Feb. 52
Metal and nonmetal mine deaths rise, coal mine deaths drop in 1997 .....Feb. 56EE**
Mine operators use Internet to comply with MSHA reporting requirements.....May 32KK**
Mine safety chief asks for resources to combat fatalities, black lung.May 32BB**
Mine Safety.....May 32GG**
Mineral Policy Center.....Nov. 2D*, 32BBB**
Minewater treatment solution awarded at national engineering competition.....July 32DD**
Mining community notified of problem in breathing device.....Jan. 32CC**
Mining exhibit needs volunteers.....Mar. 32LL**
Mining industry protective of wildlife.....Nov. 32AA**
Two mining leaders take museum posts.....Nov. 32AA**
Mining moratorium moves a step closer in Wisconsin.....Apr. 32FF**
Mining Renaissance in Africa.....Sept. 32C*, 32AA**
Mining salary and wage survey results released.....Aug. 32D*, 32EE**
MMSA awards student authors.....Feb. 56FF**
Molybdenum.....Mar. 54
More Canadian Taxes?.....Sept. 16
MSHA alerts mining industry on drowning deaths at mine sites.....Jan. 32CC**
MSHA alerts underground coal mining operations of increased roof-fall fatalities..Aug. 32A* Aug. 32EE**
MSHA automates enforcement with laptop computers.....Sept. 32GG**
MSHA gets mine emergency vehicle .Dec. 16NN**
MSHA now accepting required data online.....Mar. 32JJ**
MSHA promoting use of video cameras to eliminate 'blind spot' accidents.....Sept. 32GG**
MSHA proposal exceeds authority in illness reporting policy.....Mar. 32BB**
MSHA proposes rule to reduce diesel particulate exposure.....July 32A*
MSHA proposes rules to protect health of mine workers.....Dec. 16BB**
MSHA to help U.S. coal mines with safety standard compliance.....Jan. 32C*
MSHA, Florida Canyon Mining reach agreement on health violations.....Jan. 32CC**
Mucking teams take first and second place.....Dec. 16OO**
Murkowski, Craig, Reid, Bryan, mining industry prevail on hardrock regulations study.....Nov. 32HH**
National Waterways Conference stresses waterway importance through coal industry.....Jan. 32B*
Negotiating Impasse Halts Voisey's Bay Development.....Sept. 15
Nevada governor receives mining tribute..Dec. 16OO**
New Brooks Range Geophysical Survey Released.....July 11
New Common Law for Business Law in Francophone Africa.....Sept. 15
New gemstone occurrences found.....May 32KK**
New map of U.S. mines introduced.....Dec. 16PP**
New surface coal mine rulemaking approach starts with ownership and control regulations.....Jan. 32C*, 56JJ**
Newcrest Readies Cadia Project — 1998 Startup.....May 20
Newmont dedicates facility to late chairman.....Mar. 32BB**
Nice guys do finish last.....Sept. 32GG**
Nickel.....Mar. 55
NMA forecasts all-time coal records.....Apr. 32C*
NMA, MSHA honor mines with best safety records.....Oct. 16HH**
NMA president chides Clinton.....16NN**
Nordberg Expands.....Feb. 43
North Dakota, Lignite Energy Council, NMA ask for judicial reviewDec. 16NN**
Northwestern creates engineering-law program.....May 32LL**
Nothing is Impossible if it has Happened Before.....Mar. 13
Nugget Pond Mine.....Apr. 46
Options for Hedging Mine Planning Scenarios to Meet Contingencies Part I.....May 56
Options for Hedging Mine Planning Scenarios To Meet Contingencies Part II..June 36
Options for Hedging Mine Planning Scenarios to Meet Contingencies Part III..July 46
P&H Mining Equipment continues to promote responsible mining regulation.....Apr. 32NN**
Patriot mine receives Kentucky reclamation award.....Mar. 32LL**
Pegasus Outlines Survival Plan.....May 18
Pennsylvania Supreme Court denies appeal in coalbed methane recovery case.....Aug. 32A*
Pennsylvania team takes first place in contest.....Jan. 32C,* 32DD**
Peru's Privatization Continues.....Aug. 14
PGM Group.....Mar. 58
Phelps Dodge Cuts Cu Output.....Dec. 14
Phosphate Rock.....Mar. 42
Placer Dome's View on Gold — It's Here to Stay.....June 9
Polishing the Silver — With a $910M Bet on the Come.....Mar. 13
Post Shot Procedures.....Jan. 27
Price Waterhouse World Mining Conference.....Feb. 20
Proposal to constitute Ingwe and Trans-Natal as wholly owned subsidiaries of Billiton.....Sept. 32G*
Pumping Up the Oil.....May 16
Radomiro Tomic.....Mar. 28
Randol Gold and Silver Forum '98.....June 27
Ranking Polymetallic Projects.....June 34
Record U.S. coal production tops 1B st again.....Sept. 32G*
Report on the Los Frailes Dam Failure.....Nov. 9
Resuing Shrinkage Stoping.....Oct. 34
Revised P.E. exam format recommendation accepted.....Apr. 32JJ**
Russia to Lend Gold to Market Rather Than Sell It.....Oct. 13
Sage Mill.....Jan. 20
Salaries lag behind inflation, survey says..Sept.32HH**
São Bento.....Oct. 28
Savage Resources Tripling Clarksville Refinery to 300K mt/yr Zinc.....July 12
SDSM&T student wins $2,000 scholarship.....Feb. 56JJ**
A Second Down Under.....Nov. 32J*, 32KKK**
September U.S. steel shipments up 9.2% from 1996.....Jan. 32DD**
Shrinking 'The Big Australian': BHP Write-downs Top $A3B.....Aug. 14
Silver.....Mar. 62
SIUC wins grant from Clean Coal Institute.....Jan. 32B*, Feb. 56EE**
Soda Ash.....Mar. 64
Some Cooling to the Global Warming.....Feb. 56D*, 56XX**
South African mine inspectors to get crash course in U.S. mine safety practices.....Sept. 32HH**
Stabilization measures for Russian coal industry dominate conference....July 32A*
State of Alaska Funds Airborne Geophysics.....July 10
Stillwater.....Dec. 20
Stobie Signals Shotcrete Success....Aug. 42
Storage of coal mine methane in abandoned/closed mines increases profits.....Sept. 32F*
Sunshine Mine.....Feb. 46
Swedish Exploration & Mining in 1997.....July 50
Task Force Promotes Mexican Mine Development.....Oct. 12
The Cresson Project.....June 32KK**
The Shutdown of the U.S. Bureau of Mines.....May 32QQ**
The South African Mining Industry..Apr. 40
Three new organizations join to fight against prescriptive professional practice standards.....Apr. 32JJ**
Thyssen Schachtbau GmbH fined in fatal Virginia coal mining accident.....Apr. 32FF**
Titanium.....Mar. 40
To Contrarians, Indonesia Still Glitters.....Dec. 12
Toronto Stock Exchange Raises Listing Standards.....Oct. 12
Truth Without Digging.....Aug. 14
Tungsten.....Mar. 65
U.S. Borax's Boron operations celebrates 1M safe hours.....Aug. 32HH**
U.S. coal mine fatalities at record low in 1997.....Mar. 32B*
U.S. Coal Mine Receives Environmental Award.....Oct. 16D*
U.S. District Court ruling favors mining industry.....32HH**
U.S. Labor Dept. renews push to end silicosis.....Jan. 32CC**
U.S., Utah to swap land.....July 32DD**
U.S.-Mexico Chamber forms new task force for mining industry.....July 32DD**
UMR student receives Copper Club scholarship.....Apr. 32JJ**
UMWA, NMA seek to head off new NO_x rulemaking.....Oct. 16HH**
Underground gasification project produces water gas with high hydrogen content.....Apr. 32D*
University of Idaho releases worldwide mining operations demo.....Aug. 32HH**
Uranium.....Mar. 68
Vulcan Software Systems.....July 32NN**
WAAIME awards 60 scholarships.....Sept. 32PP**
Who Owns Whom in Mining 1998.....Sept. 34
WIM accepts Prazen Award for education.....Dec. 16OO**
Wings of Pegasus Clipped.....Feb. 18
World mining companies turn to outsourcing for competitive edge.....Jan. 32C*
World's Largest Mining Market....July 18
World-Class Competitive.....Apr. 34
Worldwide Exploration Trends.....July 40
Wyoming Mining Assn. awards scholarship.....Mar. 32LL**
ZCCM's Rocky Road to Privatization.....May 14
Zinc.....Mar. 71

COMPANIES IN THE FEATURES

AAC.....Apr. 44
Acacia Resources.....Mar. 73
Acclaim Uranium.....Mar. 68
Advalloy.....Mar. 53; Apr. 45
African Mining Group.....Apr. 41
Agem Ltd.....Sept. 32C*, 32AA**
Agrifos.....Mar. 43
Agrium.....Mar. 43
Akzo-Nobel.....Mar. 65
Alabama Cathodic Metals.....Mar. 51
Alcaston Mining N.L.....July 50
Alcoa.....Sept. 34
Allvac.....Mar. 41
Alta Group.....Mar. 41
Alusaf.....Apr. 41
Amalgamet Canada.....Mar. 51
Amax Gold.....Mar. 43; Apr. 36
American Barrick.....Apr. 37
Ammeberg Mining.....July 50
Anaconda.....Mar. 39; Apr. 37; Dec. 20
Anaconda Chile.....Apr. 35
Anaconda Nickel.....Oct 18
Anaconda Uranium.....Mar. 68; Sept. 42
Anglo American Corp.....Mar. 40; Apr. 41; Sept. 32C*, 32AA**, 34
Anglovaal.....Mar. 36; Apr. 41; Sept. 34
Anvil Range.....Mar. 49, 71
Aquarius Randex Platinum.....Apr. 45
Arizona.....Apr. 37
Armco.....Mar. 76
Asarco Inc....Mar. 71; May 62, 64;Sept. 34
Ashanti Goldfields....Sept. 32C*, 32AA**
Ashton Mining.....Apr. 45; July 50
Associated Manganese.....Mar. 53
Asturiana de Zinc.....Mar. 73
Australian Magnesium Corp.....Mar. 51
Australian Magnesium Investments Pty Ltd.....Mar. 51
Australian Manganese Co.....Mar. 53
Avgold.....Apr. 41
Avisma Titanium and Magnesium Works.....Mar. 51
Avmin.....Apr. 41
Barbrook.....Apr. 45
Barrick Gold Corp.....Apr. 43; Sept. 34
Beachcove TGME.....Apr. 45
Bema Gold.....Apr. 36
Beta.....Mar.76
Broken Hill Pty Co. Ltd. (BHP).....Apr. 45, 47, 52; July 50; Sept. 34
BHP Diamonds.....Aug. 34
BHP Exploration.....Apr. 45
BHP Minerals.....Mar. 41, 50
BHP-Tinfos.....Mar. 41
Billiton plc.....Apr. 37; Sept. 34
Bitech Corp.....Apr. 46
Boliden.....July 50
Botswana Diamonds.....Apr. 45
Brandon Gold.....July 50
Breakwater Resources.....Mar. 73
Bre-X Minerals.....June 42, 43, 44, 45
Brunner Mound.....Mar. 65
Ca Minera Pachn.....May 47
Caemi Mineracao e Metalurgia SA..Sept. 34
Caemi.....Sept. 34
Caledonia.....Apr. 45; July 50
Cambridge Mineral Resources.....July 50
Cameco Corp.....Mar. 68
Canadá Tungsten.....Apr. 35
Candelaria.....Apr. 37
Canning Resources.....Sept. 42
Caparo.....Mar. 76
Cargill.....Mar. 44
Cato Ridge Alloys.....Mar. 53
CDE Chilean Mining.....Apr. 36, 37
Centromin.....Mar. 73
CEZ.....Mar. 72
CF Industries.....Mar. 43
CF&I.....Mar. 75
Cia. Minera El Indio.....Apr. 35

E&MJ ANNUAL INDEX 1998

Cia. Minero San José....Apr. 36
Citi....Apr. 37
Cluff Mining....Mar. 53
CMC....Apr. 45
CMI Lydenburg....Apr. 45
CMI....Mar. 43
CMP....Apr. 35
Cocar....Apr. 36
Codelco....Mar. 54; Sept. 34, Nov. 32J*,32KKK**
Codelco-Chile....Mar. 34; Apr. 35; June 38; May 60
Coeur D'Alene Mines Corp....Apr. 36
Cogema....Mar. 69; July 50
Comilog....Mar. 53
Cominco....Mar. 71, 72; Apr. 35; May 34, 66; Oct 18
Cominco-Alaska Inc....May 34, 66
Cominor....Apr. 35, 37
Congo Minerals, Inc....Mar. 51
Consol, Inc....May 32F*
Copper Refineries Ltd....Oct 18
Cotter Corp....Mar. 70
CRA Exploration Ltd....Mar. 41
Cripple Creek & Victor Gold Mining Co....June 32KK**
Crometals....Apr. 45
CTT....Mar. 39
CVRD....Mar. 53; Apr. 43; Sept. 34
Cyprus Amax....Mar. 54; Apr. 35; Sept. 34, 46; Dec. 28
Daler Mining Corp....July 50
Dayton Developments Corp....Apr. 36
DBK....Apr. 36
Dead Sea Magnesium Ltd....Mar. 50
DeBeers....Apr. 41; Sept. 32C*, 32AA**
Delta Electrical Industries....Mar. 53
Delta EMD....Mar. 53
Dessir Resources....June 45
Disputada de Las Condes....Apr. 35
Doe Run Resources Co....Mar. 49
Dongbu Corp....Mar. 53
Dow Magnesium....Mar. 50, 51
DRD....Sept. 34
Duval Corp....Dec. 28
East Asia Metal....Apr. 45
Eastern Goldfields....Apr. 45
ECCO....May 47
Echo Bay Mines....Jan. 15; July 32NN**
Eersteling....Apr. 45
Eldorado Gold Corp....Apr. 41, Oct. 28
ELG Haniel....Apr. 45
Eltin Ltd....Sept. 32C*, 32AA**
Empresa Minera Mantos Blancos....Apr. 35
Enami....Apr. 35
Energy Fuels Corp .Mar. 70; July 32NN**
Energy Resources of Australia (ERA)....Mar. 70; Sept. 42
Enirsorse....Mar. 73
Equatorial....Apr. 35
Eramet....Mar. 53
Eulogio Gordo....Apr. 37
Exxon Minerals....Sept. 34
Falconbridge .Mar. 39, 56; Apr. 35; Sept. 34
Falconbridge Exploration....Apr. 45
Farmland-Hydro....Mar. 43
Feralloys....Mar. 53
Ferroalloy....Apr. 45
FMC Corp..Mar. 64, Nov. 32J*, 32KKK**
FMC Lithium Corp....May 47
Freeport McMoran Copper & Gold Inc....May 34; June 43; Sept. 34
Gallatin....Mar. 76
Galt Alloys, Inc....Mar. 41
Gecamines....Mar. 39
Gencor Ltd....Mar. 53; Apr. 41, 44; Sept. 32C*, 32AA**; Sept. 34; Oct. 28
General Atomics....Mar. 70
General Chemical Corp....Mar. 64
Genmin....Oct. 28
Geoforum....July 50
Georgetown....Mar. 75
Getchell Gold Corp....Jan. 15
Gexco AB....July 50
GFSA....Apr. 44
Gibraltar Mines Ltd....Apr. 35
Glencore....Mar. 73, Apr. 45
Gold Fields....Apr. 41; Sept. 34
Gold Fields Ghana....Sept. 32C*, 32AA**
Gold Fields Mineral Services Ltd. .Mar. 36
Gold Fields Mining Corp. ....Jan. 20
Golden Cycle Gold....June 32KK**
Golden Triangle Inc. ....Mar. 41
Goldfields....Sept. 32C*, 32AA**
Gossan Resources....Mar. 51
GRK Mining Services....May 47
Grupo Callejas....Apr. 36
Grupo Industrial Minera Mexico...Sept. 34
Grupo Luksic....Apr. 35
Grupo Minera Aconcagua SA....May 47
GST....Mar. 75
Harmony....Sept. 34
Heathgate Resources....Sept. 42
Henric....Apr. 45
Homestake Mining....Apr. 36; Sept. 34
Huanen Refined Coal Co....May 32B*
Hydro Magnesium....Mar. 50
ICCI....Mar. 39
Icelandic Magnesium Co. ....Mar. 51
IGE International Gold Exploration AB....July 50
IMC Global....Mar. 65, 69; Sept. 34
IMC-Agrico....Mar. 42, 45
Imperial Chemical Industries plc (ICI)....Mar. 42
Inco Ltd....Mar. 39, 56; Aug. 42; Sept. 34; Oct 18
Independence Mining Co....June 32KK**, 32OO**
International Uranium Corp. (IUC)..Mar. 68
Ipsco....Mar. 76
Iscor Ltd. ....Apr. 44, Sept. 34
Jämtlands Mineral AB....July 50
Japan Metals & Chemicals....Mar. 53
JCI....Apr. 41; Sept. 32C*, 32AA**, 34
Jiangxi Copper Co ....Oct 18
Jinduicheng (JDC)....Mar. 54
JNR Resources....Mar. 68
JPMC....Mar. 44
Kabanga Nickel Co....Sept. 32C*, 32AA**
Kahama Mining Corp. ....Oct. 18
Kaiser, Inc. ....May 32F*
Kemira Pigments....Mar. 42
Kemira, Inc....Mar. 42
Kennecott....Mar. 54; Apr. 37
Kerr-McGee ....Mar. 40, 42
Kingfisher Gold....Apr. 45
Kinross Gold ....Jan. 15
Kvaerner Metals ....May 47
Lac Minerals....Dec. 20
La Joya del Sol....Nov. 32J*, 32KKK**
LapisChile SA ....Apr. 34
LKAB....July 50
Lonrho....Apr. 41
Louisiana Pigment Co. LP....Mar. 42
Magma Copper....Sept. 34
Magnesium Alloy Corp....Mar. 51
Magnesium Refining Tech....Mar. 51
Magnitogorsk/Nizhniy Tagil Steel Works....Mar. 51
Magnola Metallurgy....Mar. 51
Magscape, Inc. ....Mar. 51
Malaysia Mining Co. ....Sept. 34
Mantos Minorco ....Apr. 35
Mas Errazuriz ....Apr. 36
Metaleurop ....Mar. 73
Middelburg Technochrome ....Apr. 45
Millennium Inorganic Chemicals ....Mar. 42
MIM Holdings Ltd. ....May 46; Sept. 34
Minas de Almagrera....Mar. 74
Mincar....Apr. 35
Minera Alumbrera ....May 46, 48, 49, 54
Minera Candelaria ....Apr. 35
Minera del Altiplano SA....May 47, Nov. 32J*, 32KKK**
Minera Doña Inés de Collahuasi ....Apr. 35
Minera Escondida....Apr. 35
Minera Las Luces ....Apr. 35
Minera Las Pelambres....Apr. 35
Mineral Mantos Blancos....Apr. 35
Minera Michilla....Apr. 35
Minera Peoles de Argentina SA ....May 47
Minera Tuina ....Apr. 35
Minera Yanacocha SA....June 26, 27, 28
Mineral Resource Devel....June 28
Minhe Magnesium ....Mar. 50
Minorco....Apr. 44; June 32KK**
Mississippi Chemical ....Mar. 43
Mississippi Phosphates ....Mar. 45
Mitsui....Apr. 45; Mar. 44; Sept. 34
Mizuhima....Apr. 45
Molycorp....Mar. 54
Monto Minerals NL ....Mar. 41
Moonstone....Apr. 45
Mount Isa Pacific Pty. Ltd....May 46
Mulberry Phosphates....Mar. 44
Musto Explorations Ltd....May 46
Navan Resources....Mar. 73
Navoi....Mar. 70
Nerco Minerals ....June 32KK**
Newcrest....June 27
Newmont Gold Corp....Jan. 20, Mar. 36
Newmont Mining Corp....Sept. 34
Nippon Denso ....Mar. 53
Nissho Iwai ....Mar. 54
Nittetsu....Apr. 45
Niugini....Apr. 36
Noble Peak....Apr. 45
Noranda Inc....Mar. 51, Sept. 34
Noranda Metallurgy ....Mar. 51
Norilsk Nikel ....Mar. 57, 61; May 54
Normandy Mining....Mar. 51, 73; Sept. 34
Norsk Hydro....Mar. 44
North American Chemical ....Mar. 64
North Atlantic Natural Resources ..July 50
North Gate ....Apr. 37
North Ltd....May 46; Sept. 42
North Star Diamonds AS ....July 50
North Star-BHP (Delta) ....Mar. 76
Northern Orion Exploration ....May 47
Novender Inc. ....Apr. 46
NST Ferrochrome....Apr. 45
Nucor....Mar. 76
OCP....Sept. 34
OMG ....Mar. 39
Ontario Hydro ....Mar. 68
Oregon Metallurgical Corp. (Oremet) ....Mar. 41
Oriana Co. ....Mar. 51
Oriental Chemical Inc. (OCI)....Mar. 64
Original Sixteen to One Mine....June 39
Oswal Chemicals and Fertilizers ....Mar. 46
Outokumpu ....Mar. 56, 72; Apr. 35
Pacific Rim ....Apr. 36
Pangang Group Titanium Works Co. ....Mar. 41
Pangea Goldfields....Sept. 32C*, 32AA**
Pasminco ....Mar. 73
Paulista Group....Mar. 53
PCS Phosphates ....Mar. 43, 44
Pegasus Gold Corp....Jan. 15; Mar. 36; Apr. 37
Peñoles Group....Oct 18
Penrice Soda....Mar. 65
Pequeños Productores....Apr. 35
Phelps Dodge Mining Corp....July 34; Sept. 34, 46; Dec. 30
Pikes Peak Mining Co....June 32KK**, 32OO**
Placer Dome Inc. ....Mar. 54; Apr. 35; June 43; Sept. 34
Poplar Resources....July 50
Poschrome ....Apr. 45
Power Resources ....Mar. 70
Preussag ....Mar. 73
Priargunsky ....Mar. 70
Princeton Mining Corp....Mar. 54
PT Inco ....Mar. 57
Purity Manganese....Mar. 53
QIT-Fer et Titane Inc. ....Mar. 41
QNI ....Mar. 39; Apr. 41
Queensland Metals Corp. Ltd. ....Mar. 51
Quilacoyan....Apr. 36
Rand Mines....Apr. 41
Randgold. ....Apr. 41; Sept. 32C*, 32AA**, 34
Randol International....June 26, 27
Ranger Minerals....Sept. 32C*, 32AA**
Rayrock Ltd. ....Apr. 35
Redaurum ....Apr. 45
Refinmet S.A. ....Apr. 36
Resolute Mining....Sept. 32C*, 32AA**
Rex....Apr. 45
RGC Ltd. ....Mar. 41
RGC Mineral Sands Inc. ....Mar. 40
Rhoex....Apr. 45
Rhone Poulenc ....Mar. 43, 65
Richmont Mines ....Apr. 46
Riddarhyttan Resources ....July 50
Rio Aglom ....Mar. 69; Apr. 35; May 46
Rio Tinto plc ....Mar. 70, 73; July 50; Sept. 34, 42
RMI ....Mar. 41
Sadiola Exploration Ltd ....Sept. 32C*, 32AA**
Sali Hochschild....Apr. 35
Samancor....Mar. 52
Santa Fe Pacific Gold....Jan. 20, Mar. 36
Scandinavian Gold Prospecting ....July 50
ScanMining ....July 50
SCM Chemicals Inc. ....Mar. 42
Shenfu Coal Co....May 32B*
Shenhua Coal Corp. ....May 32B*
Soc. Minera Pudahuel....Apr. 35
Soc. Punta del Cobre ....Apr. 35
Sociedade Brasileira de Eletrolise..Mar. 53
Societe Nationale Elf Aquitaine ....Mar. 65
Solikamsk Magnesium Works ....Mar. 51
Solvay America....Mar. 64
Solvay et Cie of Belgium....Mar. 64
Solvay Minerals ....Mar. 64
South Atlantic Resources....July 50
Southern Cross Resources Mar. 68; Sept. 42
Southern Era ....Apr. 45
Southern Mining Corp....Mar. 41
SPIC....Mar. 44
Steel Dynamics....Mar. 76
Stillwater Mining Co. ....Dec. 20
Strathmore Resources....Mar. 68
Sumitomo....Mar. 39; Apr. 45
Sunshine Mining and Refining....Feb. 46
Sutton Resources....Sept. 32C*, 32AA**
Svansk Koppar....July 50
Taiyuan Iron and Steel....May 54
Tambang Timah....Sept. 34
Teck Corp....Apr. 35; Sept. 34
Tenneco Minerals....Mar. 64
Terra Mining....July 50
Texas Gulf Sulphur ....May 44
TG Soda (Atochem)....Mar. 64
Thompson Creek Mining....Mar. 54
Timet....Mar. 41
Tiomin Resources Inc. ....Mar. 41
Tioxide....Mar. 42
Titanium Hearth Technologies....Mar. 41
Titanium Memory Systems Inc....Mar. 41
Titanium Metallurgical Corp. ....Mar. 41
Toho Titanium Inc. ....Mar. 41
Transalloys....Mar. 53
Trans-World Group....Mar. 53
Trelleborg....July 50; Sept. 34
Trico....Mar. 76
Tricorona....July 50
Trillion....Apr. 45
Tuscaloosa....Mar. 76
TVX Gold....Apr. 36
Uranerz....Mar. 69
Uranium Resources Inc. (URI)....Mar. 69
US Chem and Farmland....Mar. 43
Vale-Usiminas Participações ....Mar. 53
Valiant....Mar. 53
Valimet....Mar. 41
Valinox Welded ....Mar. 41
Västernorrlands Mineral AB....July 50
Viking Gold ....July 50
Viscaria AB....July 50
Volcan Minera....Mar. 73
Wermlands Gruvcenter ....July 50
West Wits ....Apr. 45
Western Metals ....Mar. 73
Western Mining....Mar. 70; Oct 18
Wheeling-Pittsburgh ....Mar. 75
William Resources....July 50
WMC Ltd. ....Mar. 44; Sept. 34
World Wide Minerals....Mar. 68
ZCCM....Mar. 39; Sept. 34
Zinkgruvan....July 50

COUNTRIES

AFGHANISTAN

World-Class Competitive....Apr. 34

ALGERIA

Phosphate Rock....Mar. 45

ARGENTINA

Argentina Mining '98....Apr. 18
Argentina Mining '98 Puts Mendoza on the Map....Mar. 21
Argentina Puts Emphasis on Mining....Apr. 17
Argentine Silver Project Accelerated....Apr. 20
Bajo de la Alumbrera....May 46
Copper....Mar. 34
An El Niño Drubbing....May 16
Exploration Roundup....Mar. 10; May 8; June 7; Aug. 10; Sept. 8
Future of South American Exploration
Rosy....Apr. 18
Iron and Steel....Mar. 76
A Second Down Under....Nov. 32J*, 32KKK**
Sunshine Mine....Feb. 46
Uranium....Mar. 70
World-Class Competitive....Apr. 38

ARMENIA

Molybdenum....Mar. 55

AUSTRALIA

1998 Engineering and Mining Project Survey....Jan. 15
Ashton Raising $A70M for Diamond Projects....Aug. 14
Australian Nickel-Cobalt Project Changes Hands....Sept. 15
Australian Uranium Devel....Sept. 42
Bajo de la Alumbrera....May 46
Cameco Purchase Expands its U_3O_8 Production Reserves....Oct. 12
China's Two Major Modern Coal Projects
Cobalt....Mar. 39
Coping with Lower Gold Prices....Apr. 22
Copper....Mar. 34
Diamonds from the Far North....Aug. 34
Ernest Henry Starts Up in Queensland....May 23
Exploration Downhill from Here On....Jan. 10
Exploration Roundup....May 8; June 6; Aug. 10; Sept. 8
Finnminers....Oct 18

Frequent Internet use indicates rapid development of commerce....Dec. 16PP**
Future of South American Exploration
Rosy....Apr. 18
Gold....Mar. 36
Iron and Steel....Mar. 75
Iscor Joins Hancock on Hope Downs Iron Ore Project....Mar. 18
Lead....Mar. 49
Magnesium....Mar. 51
Manganese....Mar. 52
Mine Safety....May 32JJ**
Mining Renaissance in Africa....Sept. 32C*, 32AA**
Mucking teams take first and second place....Dec. 16PP**
National Waterways Conference..Jan. 32B*
Newcrest Readies Cadia Project....May 20
Nickel....Mar. 56
Nothing is Impossible if it has Happened Before....Mar. 13
Phosphate Rock....Mar. 43
Placer Dome's View on Gold....June 9
Price Waterhouse World Mining International Conference....Feb. 20
Randol Gold and Silver Forum '98....June 27
A Second Down Under....Nov. 32J*, 32KKK**
Shrinking 'The Big Australian'....Aug. 14
Silver....Mar. 63
Soda Ash....Mar. 64
Swedish Exploration & Mining in 1997....July 50
The South African Mining Industry..Apr. 42
Titanium....Mar. 40
Tungsten....Mar. 66
Uranium....Mar. 69
Who Owns Whom in Mining 1998....Sept. 34
Worldwide Exploration Trends....July 40
ZCCM's Rocky Road to Privatization....May 14
Zinc....Mar. 71

AUSTRIA
Coal....Mar. 47
Iron and Steel....Mar. 76
Magnesium....Mar. 51
Tungsten....Mar. 66

BELGIUM
100 mt Au for the Millennium....July 12
Boliden Expands its Presence....Mar. 16
Coal....Mar. 47
Iron and Steel....Mar. 76
Molybdenum....Mar. 54
Soda Ash....Mar. 64
Uranium....Mar. 70

BOLIVIA
Argentina Mining '98 Puts Mendoza on the Map....Mar. 22
Flexible policy, early credit keys to curbing energy emission....Feb. 56FF**
Tungsten....Mar. 66

BRAZIL
Argentina Mining '98 Puts Mendoza on the Map....Mar. 22
Coal....Mar. 48
Copper....Mar. 34
Exploration Roundup....Feb. 14; Apr. 12
Future of South American Exploration
Rosy....Apr. 18
Gold....Mar. 36
Iron and Steel....Mar. 75
Magnesium....Mar. 50
Manganese....Mar. 52
Phosphate Rock....Mar. 45
São Bento....Oct. 28
Tungsten....Mar. 66
Uranium....Mar. 70
Who Owns Whom in Mining 1998..Sept. 34
World-Class Competitive....Apr. 35

BULGARIA
Soda Ash....Mar. 65
Zinc....Mar. 71
Bulgaria's Coal Mining Industry to Become More Efficient....June 32A*

BURKINA FASO
Australian Nickel-Cobalt Project Changes Hands....Sept. 15
Exploration Roundup....Feb. 14
Mining Renaissance in Africa....Sept. 32C*, 32AA**
New Common Law for Business Law in Francophone Africa....Sept. 15

BURMA
Exploration Roundup....Feb. 16
Tungsten....Mar. 66

CAMEROON
New Common Law for Business Law in Francophone Africa....Sept. 15

CANADA
103rd Annual NWMA Meeting....Feb. 19
1998 Engineering and Mining Project Survey....Jan. 15
After Kyoto....Oct. 16A*, 16AA**
Aluminum....Mar. 46
Anglogold/Anglo American Form Ventures with Barrick....Nov. 9
Argentina Mining '98 Puts Mendoza on the Map....Mar. 22
Australian Uranium Development....Sept. 42
Bajo de la Alumbrera....May 46
Boliden Expands its Presence....Mar. 14
Bre-X: The Lure of False Gold....June 42
Cameco Purchase Expands its U_3O_8 Production Reserves....Oct. 12
Camese....Aug. 46
Cardinal River Coals receives approval for Cheviot mine....Sept. 32G*
Coal....Mar. 47
Cobalt....Mar. 39
Coping with Lower Gold Prices....Apr. 22
Copper....Mar. 34
Diamonds from the Far North....Aug. 34
Diavik Joint Venturers Outline Project Planning....May 22
An El Niño Drubbing....May 16
Europe's Biggest Mine Rehabilitation Project....Feb. 40
Expanding Smelter Capacity....Apr. 20
Canada Exploration Downhill from Here On....Jan. 9; Feb. 14; Apr. 11; May 8; June 6
Finnminers....Oct 18
Franco-Nevada Buys Stake in Voisey's Bay....Dec. 14
Frequent Internet use indicates rapid development of commerce....Dec. 16PP**
Future of South American Exploration
Rosy....Apr. 18
Gold....Mar. 36
Inco Focuses on Low-cost Nickel Projects....Jan. 10
Iron and Steel....Mar. 75
Kinross-Amax Gold Merger Creates a Major Industry Player....Apr. 17
Lead....Mar. 49
Leader of the Pack....May 38
Luscar Becomes Canada's Largest Coal Producer....Nov. 32P*
Magnesium....Mar. 50
Manganese....Mar. 52
Mining Renaissance in Africa....Sept. 32C*, 32AA**
Molybdenum....Mar. 54
More Canadian Taxes?....Sept. 16
National Waterways Conference ..Jan. 32B*
Negotiating Impasse Halts Voisey's Bay Development....Sept. 15
NMA forecasts all-time coal records....Apr. 32C*, 32D*
Nothing is Impossible if it has Happened Before....Mar. 13
Nugget Pond Mine....Apr. 46
PGM Group....Mar. 62
Placer Dome's View on Gold....June 9
Price Waterhouse World Mining International Conference....Feb. 20
Pumping Up the Oil....May 16
Quinette Coal Concludes New Five-Year Operating Arrangements....June 32B*
Randol Gold and Silver Forum '98....June 28
A Second Down Under....Nov. 32J*, 32KKK**
Silver....Mar. 63
Soda Ash....Mar. 64
The South African Mining Industry..Apr. 42
Stobie Signals Shotcrete Success...Aug. 42
Swedish Exploration & Mining in 1997....July 50
Task Force Promotes Mexican Mine Development....Oct. 12
Titanium....Mar 40, 42
Toronto Stock Exchange Raises Listing Standards....Oct. 12
Uranium....Mar. 68
Who Owns Whom in Mining 1998....Sept. 34
Wings of Pegasus Clipped....Feb. 18
World-Class Competitive....Apr. 34
Worldwide Exploration Trends....July 40
ZCCM's Rocky Road to Privatization....May 14
Zinc....Mar. 71

CENTRAL AFRICA REPUBLIC
New Common Law for Business Law in Francophone Africa....Sept. 15

CHAD
New Common Law for Business Law in Francophone Africa....Sept. 15

CHILE
103rd Annual NWMA Meeting....Feb. 19
1998 Engineering and Mining Project Survey....Jan. 15
Argentina Mining '98....Apr. 18
Argentina Mining '98 Puts Mendoza on the Map....Mar. 21
Bajo de la Alumbrera....May 46
Boliden Expands its Presence....Mar. 14
Coping with Lower Gold Prices....Apr. 20
Copper....Mar. 34
Exploration Roundup....May 10, Aug. 10, Nov. 6
Finnminers....Oct 18
Future of South American Exploration
Rosy....Apr. 18
Gold....Mar. 36
Kinross-Amax Gold Merger Creates a Major Industry Player....Apr. 17
Molybdenum....Mar. 54
Phelps Dodge Cuts Cu Output....Dec. 14
Placer Dome's View on Gold....June 9
Radomiro Tomic....Mar. 28
A Second Down Under....Nov. 32J*, 32KKK**
Who Owns Whom in Mining 1998....Sept. 34
World's Largest Mining Market....July 18
World-Class Competitive....Apr. 34
Worldwide Exploration Trends....July 40
Zinc....Mar. 73

CHINA
100 mt Au for the Millennium....July 12
After Kyoto....Oct. 16A*, 16AA**
Aluminum....Mar. 46
Bajo de la Alumbrera....May 54
China Lowers Domestic Gold Purchase Price....Sept. 18
China's Two Major Modern Coal Projects....May 32A*
Coal....Mar. 47
Copper....Mar. 34
Exploration Roundup....June 6; Oct. 10
Figuring Out China's Gold Production Costs....Sept. 16
Finnminers....Oct 18
Gold....Mar. 36
Iron and Steel....Mar. 75
Magnesium....Mar. 50
Manganese....Mar. 52
Mine Safety....May 32HH**
Molybdenum....Mar. 54
Nickel....Mar. 56
Nothing is Impossible if it has Happened Before....Mar. 13
PGM Group....Mar. 60
Phosphate Rock....Mar. 45
Placer Dome's View on Gold....June 10
Resuing Shrinkage Stoping....Oct. 34
A Second Down Under....Nov. 32J*, 32KKK**
Silver....Mar. 63
Soda Ash....Mar. 65
Titanium....Mar. 41
Tungsten....Mar. 66
Underground gasification project produces water gas with hydrogen content....32D*
Uranium....Mar. 70
World-Class Competitive....Apr. 37
ZCCM's Rocky Road to Privatization....May 15
Zinc....Mar. 71

COLOMBIA
Argentina Mining '98 Puts Mendoza on the Map....Mar. 22
National Waterways Conference....Jan. 32B*

COMMONWEALTH OF INDEPENDENT STATES
Coal....Mar. 47
Copper....Mar. 35
Gold....Mar. 37
Magnesium....Mar. 50
Placer Dome's View on Gold....June 10
Zinc....Mar. 71

COSTA RICA
Gold....Mar. 36

COTE D'IVOIRE
New Common Law for Business Law in Francophone Africa....Sept. 15

CUBA
Cobalt....Mar. 39
Exploration Roundup....May 8
Nickel....Mar. 56

CZECH REPUBLIC
Europe's Biggest Mine Rehabilitation Project....Feb. 40
Iron and Steel....Mar. 76
Uranium....Mar. 70

DEMOCRATIC REPUBLIC OF CONGO (KINSHASA, FORMERLY ZAIRE)
Anglogold/Anglo American Form Ventures with Barrick....Nov. 9
Cobalt....Mar. 39
Copper....Mar. 35
Exploration Roundup....June 6
Magnesium....Mar. 50
Manganese....Mar. 53
Mining Renaissance in Africa....Sept. 32C*, 32AA**
New Common Law for Business Law in Francophone Africa....Sept. 15
ZCCM's Rocky Road to Privatization....May 15

DENMARK
Coal....Mar. 47

EAST GERMANY
Copper....Mar. 35

ECUADOR
Argentina Mining '98 Puts Mendoza on the Map....Mar. 22

EGYPT
Phosphate Rock....Mar. 45

EQUATORIAL GUINEA
New Common Law for Business Law in Francophone Africa....Sept. 15

FINLAND
Coal....Jan. 32B*; Mar. 47, 48
Exploration Roundup....May 8
Finnminers....Oct 18
Iron and Steel....Mar. 76
Phosphate Rock....Mar. 45
Titanium....Mar. 42
Zinc....Mar. 72

FORMER GERMAN DEMOCRATIC REPUBLIC
Europe's Biggest Mine Rehabilitation Project....Feb. 40

FORMER SOVIET UNION
Copper....Mar. 35
Iron and Steel....Mar. 75
Manganese....Mar. 52
Nickel....Mar. 56
Phosphate Rock....Mar. 45
The Shutdown of the U.S. Bureau of Mines....May 32VV**
Uranium....Mar. 68, 69, 70

FRANCE
100 mt Au for the Millennium....July 12
Coal....Mar. 47
Copper....Mar. 34
Europe's Biggest Mine Rehabilitation Project....Feb. 40
Frequent Internet use indicates rapid development of commerce....Dec. 16PP**
Inco Focuses on Low-cost Nickel Projects....Jan. 10
Iron and Steel....Mar. 76
Magnesium....Mar. 50
Manganese....Mar. 53
Mine Safety....May 32HH**
Nothing is Impossible if it has Happened Before....Mar. 14
Soda Ash....Mar. 65
Titanium....Mar. 41
Uranium....Mar. 70
Zinc.Mar. 73

FRENCH GUIANA
Exploration Roundup....Oct. 10

GABON
Manganese....Mar. 52
New Common Law for Business Law in Francophone Africa....Sept. 15
Uranium....Mar. 69

E&MJ ANNUAL INDEX 1998

GEORGIA
Manganese....Mar. 52

GERMANY
100 mt Au for the Millennium....July 12
China's Two Major Modern Coal Projects....May 32A*
Coal....Mar. 47
Copper....Mar. 34
Europe's Biggest Mine Rehabilitation Project....Feb. 40
Frequent Internet use indicates rapid development of commerce....Dec. 16PP**
Iron and Steel....Mar. 76
Magnesium....Mar. 51
Mine Safety....May 32HH**
Nickel....Mar. 56
Nothing is Impossible if it has Happened Before....Mar. 14
PGM Group....Mar. 60
Radomiro Tomic....Mar. 30
Rheinbraun Increases Involvement Abroad....June 32A*
Silver....Mar. 62
Soda Ash....Mar. 65
Thyssen Schachtbau GmbH Fined in Fatal Virginia Coal Mining Accident....Apr. 32FF**, June 32A*
Titanium....Mar. 41
World-Class Competitive....Apr. 35,

GHANA
Gold Mines in Ghana....June 11
Gold....Mar. 36
Mining Renaissance in Africa....Sept. 32C*, 32AA**
Nothing is Impossible if it has Happened Before....Mar. 14
Swedish Exploration & Mining in 1997....July 50

GREECE
Coal.Mar. 47
Exploration Roundup....Aug. 10

GUYANA
Exploration Roundup....May 10

HONDURAS
Gold....Mar. 36

HUNGARY
Uranium....Mar. 70

ICELAND
Magnesium....Mar. 51

INDIA
100 mt Au for the Millennium....July 12
Coal....Mar. 48
Copper....Mar. 34
Gold....Mar. 37
Iron and Steel....Mar. 76
Magnesium....Mar. 50
Manganese....Mar. 52
Mine Safety....May 32GG**
Nothing is Impossible if it has Happened Before....Mar. 13
Phosphate Rock....Mar. 44
Placer Dome's View on Gold....June 10
Silver....Mar. 63
Soda Ash....Mar. 65
Titanium....Mar. 41
Uranium....Mar. 70

INDONESIA
Bre-X CEO Follows Geologist....July 16
Bre-X: The Lure of False Gold....June 42
Coal....Mar. 47
Copper....Mar. 34
Exploration Roundup....Mar. 10
Freeport Revises Operating PlanMay 18
Gold....Mar. 36
Inco Focuses on Low-cost Nickel Projects....Jan. 10
Iron and Steel....Mar. 76
Newcrest Readies Cadia Project....May 22
A Second Down Under....Nov. 32J*, 32KKK**
Soda Ash....Mar. 65
To Contrarians, Indonesia Still Glitters....Dec. 12
Truth Without Digging....Aug. 14
Who Owns Whom in Mining 1998....Sept. 34
Worldwide Exploration Trends....July 40
Zinc....Mar. 71

IRAN
Iron and Steel....Mar. 76

IRAQ
Phosphate Rock....Mar. 45

IRELAND
Coal....Mar. 47
Exploration Roundup....June 6
Zinc....Mar. 71
Iron and Steel....Mar. 76

ISRAEL
Magnesium....Mar. 50
Phosphate....42, 45

ITALY
100 mt Au for the Millennium....July 12
Coal....Mar. 47
Copper....Mar. 34
Frequent Internet use indicates rapid development of commerce....Dec. 16PP**
Gold....Mar. 37
PGM Group....Mar. 60
Soda Ash....Mar. 65
Titanium....Mar. 42
World-Class Competitive....Apr. 34
Zinc....Mar. 73

JAPAN
100 mt Au for the Millennium....July 12
After Kyoto....Oct. 16A*, 16AA**
Aluminum....Mar. 46
Coal miners, companies reach deal....Jan. 32B*
Coal....Mar. 47
Copper....Mar. 34
Finnminers....Oct 18
Frequent Internet use indicates rapid development of commerce....Dec. 16PP**
Gold....Mar. 38
Iron and Steel....Mar. 74
Magnesium....Mar. 51
Manganese....Mar. 52
Mine Safety....May 32HH**
Molybdenum....Mar. 54
Nickel....Mar. 56
PGM Group....Mar. 60
Placer Dome's View on Gold....June 9
Silver....Mar. 62
Soda Ash....Mar. 64
The South African Mining Industry.Apr. 43
Titanium....Mar. 41
Tungsten....Mar. 66
Uranium....Mar. 69
Who Owns Whom in Mining 1998 .Sept. 34
Zinc....Mar. 71

JORDAN
Phosphate Rock....Mar. 42

KAZAKHSTAN
Copper....Mar. 35
Exploration Roundup....Jan. 9; Mar. 10; June 6
Manganese....Mar. 53
Titanium....Mar. 41
Tungsten....Mar. 66
Uranium....Mar. 70
Who Owns Whom in Mining 1998....Sept. 34
Zinc....Mar. 73

KENYA
Exploration Roundup....Jan. 9
Swedish Exploration & Mining in 1997....July 50
Titanium....Mar. 41

KOREA, REPUBLIC OF
Iron and Steel....Mar. 75
Nickel....Mar. 56
Soda Ash....Mar. 64
Manganese....Mar. 53

LUXEMBOURG
Coal....Mar. 47

MALAYSIA
Copper....Mar. 34
Titanium....Mar. 42
Who Owns Whom in Mining 1998....Sept. 34

MALI
Anglogold/Anglo American Form Ventures with Barrick....Nov. 9
Exploration Roundup....Jan. 9
Mining Renaissance in Africa....Sept. 32C*, 32AA**
New Common Law for Business Law in Francophone Africa....Sept. 15

MEXICO
1998 Engineering and Mining Project Survey....Jan. 15
Copper....Mar. 34
Exploration Roundup....Apr. 11; May 12; June 7; Sept. 8, Nov. 6
Finnminers....Oct 18
Iron and Steel....Mar. 76
Manganese....Mar. 52
Molybdenum....Mar. 55
Phosphate Rock....Mar. 45
Placer Dome's View on Gold....June 10
Silver....Mar. 63
Soda Ash....Mar. 64
Task Force Promotes Mexican Mine Development....Oct. 12
U.S.-Mexico Chamber forms new task force for mining industry....July 32DD**
World-Class Competitive....Apr. 37
Zinc....Mar. 72

MONGOLIA
Tungsten....Mar. 66
Uranium....Mar. 70

MOROCCO
Phosphate Rock....Mar. 42

MOZAMBIQUE
The South African Mining Industry....Apr. 42

NAMIBIA
Exploration Roundup....June 7
Manganese....Mar. 53
Uranium....Mar. 69

NAURU
Phosphate Rock....Mar. 45

NETHERLANDS
100 mt Au for the Millennium....July 12
Bajo de la Alumbrera....May 52
Boliden Expands its Presence....Mar. 16
Coal....Mar. 47
Iron and Steel....Mar. 76
Soda Ash....Mar. 65
Titanium....Mar. 42

NEW ZEALAND
Iron and Steel....Mar. 75
Shrinking 'The Big Australian'....Aug. 14

NICARAGUA
Exploration Roundup....Sept. 8
Gold....Mar. 36

NIGER
Anglogold/Anglo American Form Ventures with Barrick....Nov. 9
Mining Renaissance in Africa....Sept. 32C*, 32AA**
New Common Law for Business Law in Francophone Africa....Sept. 15
Uranium....Mar. 70

NORTH KOREA
Iron and Steel....Mar. 76
Phosphate Rock....Mar. 45
Tungsten....Mar. 66
Zinc....Mar. 71

NORWAY
Boliden Expands its Presence....Mar. 16
Magnesium....Mar. 50
Manganese....Mar. 53
Swedish Exploration & Mining in 1997....July 50
Titanium....Mar. 40

PAKISTAN
Phosphate Rock....Mar. 45
Uranium....Mar. 70

PAPUA NEW GUINEA
Coping With Lower Gold Prices....Apr. 22
Copper....Mar. 34
Exploration Roundup....Mar. 10
Gold....Mar. 36
Placer Dome's View on Gold....June 9

PERU
100 mt Au for the Millennium....July 12
1998 Engineering and Mining Project Survey....Jan. 15
Argentina Mining '98 Puts Mendoza on the Map....Mar. 22
Copper....Mar. 34
An El Niño Drubbing....May 16
Exploration Roundup....May 8, 10; June 6, Nov. 6
Future of South American Exploration Rosy....Apr. 18
Gold....Mar. 36
Phosphate Rock....Mar. 45
Randol Gold and Silver Forum '98June 26
A Second Down Under....Nov. 32J*, 32KKK**
Shrinking 'The Big Australian'....Aug. 14
Silver....Mar. 63
Sunshine Mine....Feb. 46
Tungsten....Mar. 66
World-Class Competitive....Apr. 34
Worldwide Exploration Trends....July 40
Zinc....Mar. 71

PHILIPPINES
Bre-X: The Lure of False Gold....June 42
Copper....Mar. 34
Exploration Roundup....Oct. 10
A Second Down Under....Nov. 32J*, 32KKK**

POLAND
Iron and Steel....Mar. 76
Mine Safety....May 32HH**
A Second Down Under....Nov. 32J*, 32KKK**
Zinc....Mar. 74

PORTUGAL
Coal....Mar. 47
Copper....Mar. 34
Exploration Roundup....June 6
Soda Ash....Mar. 65
Swedish Exploration & Mining in 1997....July 50
Tungsten....Mar. 66
Uranium....Mar. 70

RHODESIA
ZCCM's Rocky Road to Privatization....May 14

ROMANIA
Exploration Roundup....Jan. 9
Iron and Steel....Mar. 76
Manganese....Mar. 53
Mine Safety....May 32HH**
Uranium....Mar. 70

RUSSIA
67 dead in Russian mine blast....Jan. 32B*
After Kyoto....Oct. 16A*, 16AA**
Aluminum....Mar. 46
Bajo de la Alumbrera....May 54
Cobalt....Mar. 38
Copper....Mar. 35
Exploration Roundup....Jan. 9; Apr. 11; May 12, Nov. 6
Finnminers....Oct 18
Gold....Mar. 37
Inco Focuses on Low-cost Nickel Projects....Jan. 10
Iron and Steel....Mar. 75
Kinross-Amax Gold Merger Creates a Major Industry Player....Apr. 17
Leader of the Pack....May 66
Magnesium....Mar. 50
Mine Safety....May 32HH**
Nickel....Mar. 55
PGM Group....Mar. 58
Russia to lend Gold to Market....Oct. 13
Stabilization measures for Russian coal industry dominate conference....July 32A*
A Second Down Under....Nov. 32J*, 32KKK**
Titanium....Mar. 41
Tungsten....Mar. 66
Who Owns Whom in Mining 1998....Sept. 34

RUSSIAN FEDERATION
Uranium....Mar. 69

SAUDI ARABIA
After Kyoto....Oct. 16A*, 16AA**
Boliden Expands its Presence....Mar. 16
Exploration Roundup....Aug. 10
Gold....Mar. 38
Phosphate Rock....Mar. 45

SENEGAL
Anglogold/Anglo American Form Ventures with Barrick....Nov. 9
Mining Renaissance in Africa....Sept. 32C*, 32AA**
New Common Law for Business Law in Francophone Africa....Sept. 15
Phosphate Rock....Mar. 42

SIERRA LEONE
Titanium....Mar. 41

SLOVAK REPUBLIC
Iron and Steel....Mar. 76

SOLOMON ISLANDS
Exploration Roundup ..... Sept. 8

SOUTH AFRICA
100 mt Au for the Millennium ..... July 12
AfriOre expands holdings ..... Oct. 16D*
Anglogold/Anglo American Form Ventures with Barrick ..... Nov. 9
Coal ..... Mar. 47
Copper ..... Mar. 34
The End of an Era for Gencor ..... Nov. 10
Gold ..... Mar. 36
Iron and Steel ..... Mar. 76
Iscor Joins Hancock on Hope Downs Iron Ore Project ..... Mar. 18
Manganese ..... Mar. 52
Mine SafetyMay 32HH**
Mining Renaissance in Africa. ..... Sept. 32C*, 32AA**
National Waterways Conference .. Jan. 32B*
Nickel ..... Mar. 56
Nothing is Impossible if it has Happened Before ..... Mar. 13
PGM Group ..... Mar. 58
Phosphate Rock ..... Mar. 42
Proposal to constitute Ingwe and Trans-Natal as wholly owned subsidiaries of Billiton ..... Sept. 32G*
South African mine inspectors to get crash course in U.S. mine safety practices ..... Sept. 32HH**
The South African Mining Industry ..... Apr. 40
Stillwater: Plans to Triple PGM Production by 2003 ..... Dec. 20
Titanium ..... Mar. 40
Uranium ..... Mar. 69
Who Owns Whom in Mining 1998 ..... Sept. 34
Worldwide Exploration Trends ..... July 40
ZCCM's Rocky Road to Privatization ..... May 14

SOUTH KOREA
100 mt Au for the Millennium ..... July 12
After Kyoto ..... Oct. 16A*, 16AA**
Copper ..... Mar. 34
Manganese ..... Mar. 53
Placer Dome's View on Gold ..... June 9
Tungsten ..... Mar. 66
Zinc ..... Mar. 71

SOVIET UNION
Europe's Biggest Mine Rehabilitation Project ..... Feb. 40
Exploration Roundup ..... May 12

SPAIN
Boliden Expands its Presence ..... Mar. 16
Coal ..... Mar. 47
Exploration Roundup ..... June 7
Frequent Internet use indicates rapid development of commerce ..... Dec. 16PP**
Iron and Steel ..... Mar. 76
Material Handling ..... Feb. 52
Radomiro Tomic ..... Mar. 29
Report on the Los Frailes Dam Failure ..... Nov. 9
Titanium ..... Mar. 42
Uranium ..... Mar. 70
World-Class Competitive ..... Apr. 34
Zinc ..... Mar. 73

SRI LANKA
Phosphate Rock ..... Mar. 45

SWEDEN
67 dead in Russian mine blast ..... Jan. 32B*
Boliden Expands its Presence ..... Mar. 16
Coal ..... Mar. 47
Copper ..... Mar. 34
Exploration Roundup ..... Jan. 9
Iron and Steel ..... Mar. 74
Swedish Exploration & Mining in 1997 ..... July 50
Who Owns Whom in Mining 1998 ..... Sept. 34

SWITZERLAND
Celtic Energy and Glencore join WCI. ..... Oct. 16D*
Kinross-Amax Gold Merger Creates a Major Industry Player ..... Apr. 18
Nothing is Impossible if it has Happened Before ..... Mar. 14
Silver ..... Mar. 62

SYRIA
Phosphate Rock ..... Mar. 42

TAIWAN
CoalMar 47, 48
Iron and Steel ..... Mar. 76
Nickel ..... Mar. 55
PGM Group ..... Mar. 60
Soda Ash ..... Mar. 65

TAJIKISTAN
Exploration Roundup ..... May 12

TANZANIA
Exploration Roundup ..... Sept. 8
FinnminersOct 18
Mining Renaissance in Africa. ..... Sept. 32C*, 32AA**

THAILAND
Phosphate Rock. Mar. 42
Soda Ash ..... Mar. 65
World-Class Competitive ..... Apr. 37
Zinc ..... Mar. 71

TOGO
New Common Law for Business Law in Francophone Africa ..... Sept. 15
Phosphate Rock ..... Mar. 45

TUNISIA
Phosphate Rock ..... Mar. 42
Zinc ..... Mar. 73

TURKEY
Gold ..... Mar. 38
Iron and Steel ..... Mar. 76

UGANDA
Swedish Exploration & Mining in 1997 ..... July 50

UKRAINE
Iron and Steel ..... Mar. 75
Magnesium ..... Mar. 50
Manganese ..... Mar. 52
Uranium ..... Mar. 70
World-Class Competitive ..... Apr. 38

UNITED KINGDOM
Aluminum ..... Mar. 46
Boliden Expands its Presence ..... Mar. 16
Celtic Energy and Glencore join WCI ..... Oct. 16D*
China's Two Major Modern Coal Projects ..... May 32A*
Coal ..... Mar. 47
Copper ..... Mar. 34
Exploration Roundup ..... Mar. 10
Frequent Internet use indicates rapid development of commerce ..... Dec. 16PP**
Gold Mines in Ghana ..... June 14
Gold ..... Mar. 35
Iron and Steel ..... Mar. 76
Lead ..... Mar. 49
Manganese ..... Mar. 53
Mine Safety ..... May 32GG**
Molybdenum ..... Mar. 54
Price Waterhouse World Mining International Conference ..... Feb. 20
Silver ..... Mar. 62
Soda Ash ..... Mar. 64
Titanium ..... Mar. 41
Who Owns Whom in Mining 1998 ..... Sept. 34
World mining companies turn to outsourcing for competitive edge ..... Jan. 32C*
Worldwide Exploration Trends ..... July 40
ZCCM's Rocky Road to Privatization ..... May 15

UNITED STATES
1872 Mining Law needs minor alterations ..... Sept. 32PP**
1997 steel shipments at highest level since 1974 ..... Apr. 32JJ**
1998 Engineering and Mining Project Survey ..... Jan. 15
After Kyoto ..... Oct. 16A*, 16AA**
AISI launches project on steel framing ..... Apr. 32FF**
Alaska students present mining project at national contest ..... Aug. 32HH**
ALPM at Asarco's Mission Complex ..... Mar. 46, May 62
American Mining Hall of Fame holds banquet ..... Mar. 32LL**
Arch acquires ARCO coal assets ..... Aug. 32A*
Arch Coal Acquires Arco's U.S. Coal Operations ..... June 32A*
Argentina Mining '98 ..... Apr. 18
Argentina Mining '98 Puts Mendoza on the Map ..... Mar. 21
Asarco enters compliance initiative agreement with EPA ..... Mar. 32BB**
Asarco receives NMA 'Excellence' award ..... Jan. 32CC**
Bajo de la Alumbrera ..... May 48
Battle Mountain recognized for public education role ..... Feb. 56EE**
Be Innovative, Adopt New Technology to Survive Global Economic Slump .. Dec. 12
Being a Junior in Nevada ..... Jan. 10
BHP sponsors National Public Lands Day 1997 ..... Jan. 32DD**
Bre-X: The Lure of False Gold ..... June 45
Bureaucracy gone mad ..... Aug. 32EE**
Cameco Purchase Expands its U_3O_8 Production Reserves ..... Oct. 12
China's Two Major Modern Coal Projects ..... May 32A*
CMA supports ranchers in wetlands suit ... . July 32FF**
Coal ..... Mar. 47
Cobalt ..... Mar. 39
Colorado's mineral and mineral fuel industries valued at $2.85B ..... July 32FF**
Companies to pay millions in settlement of suits at Montana historic mining sites. ..... Oct. 16HH**
Congressional mining caucus formed. ..... Mar. 32BB**
Consultants Make Donation to Mackay School ..... June 32TT**
Copper ..... Mar. 34
Corporation pleads guilty, mine safety standards violated ..... Sept. 32GG**
CSM to offer mine safety and health training ..... Feb. 56EE**
David A. Zegeer Coal Railroad Museum opens ..... Aug. 32D*, 32EE**
Depth to Bedrock in West-Central Nevada ..... June 32EE**
United States device to monitor coal mine dust ..... Sept. 32F*
DOE calls for proposals for energy-saving industrial technologies ..... Sept. 32GG**
DOE funds R&D university projects ..... July 32DD**; Sept. 32F*
Effort to end black lung forms U.S.-wide mine sweep ..... Mar. 32B*
El Paso Energy Law Fellowship Funded... ..... June 32SS**
EPA finalizes LDR rule for mineral processing wastes ..... July 32DD**
Expanding Smelter Capacity ..... Apr. 20
Exploration Downhill from Here On. Jan. 10
Exploration Roundup ..... Jan. 9; Mar. 10; Apr. 11; May 10; June 6; Aug. 10; Sept. 8, Oct. 10, Nov. 6
Federal mine safety agency aims to improve miner training ..... Sept. 32LL**
Finnminers ..... Oct 18
Flexible policy, early credit keys to curbing energy emission ..... Feb. 56EE**
FMC Corp. takes first place in National Mine Rescue Contest ..... Sept. 32LL**
Franco-Nevada Buys Stake in Voisey's Bay ..... Dec. 14
Frequent Internet use indicates rapid development of commerce ..... Dec. 16PP**
Geological Society of Nevada wins award for publication ..... Feb. 56EE**
Gold ..... Mar. 36
Gold exploration drops in United States ... . Dec. 16NN**
Gold Mines in Ghana ..... June 11
Gold nugget that sparked Gold Rush returns to California ..... Mar. 32BB**
Governors band together to oppose NO_x plan ..... Apr. 32FF**, June 32B*
GPS — Now for Excavation ..... July 34
Greenfields buys abandoned coal ponds, land ..... July 32A*
Greenfields Coal initiates ISO 14000 ..... Jan. 32C*
Hall of Fame award goes to Jacobs Ranch mine ..... Aug. 32D*
Hall of Fame Induction Banquet to Be Held in Phoenix ..... June 32TT**
Haulage Quality ..... Dec. 28
Heritage Urges Empowerment ..... June 32BB**
How mush 'bang' do big-name-university graduates really get? ..... Nov. 32AA**
Increases in engineering salaries decrease in 1997 ..... Mar. 32JJ**
Industrial commission approves two R&D projects ..... July 32B*
Interns more likely to get hired. ..... Apr. 32JJ**
Iron and Steel ..... Mar. 74
Judge Neil Reynolds to keynote Mining Hall of Fame ..... Aug. 32HH**
Kennecott Energy reaches agreement to purchase Jacobs Ranch ..... Sept. 32G*
Kinross-Amax Gold Merger Creates a Major Industry Player ..... Apr. 17
Knight Piésold wins Excellence Award ..... Apr. 32JJ**
Kyoto Protocol ratification will bring economic gloom to U.S. ..... Aug. 32A*
Last asbestos mine in the U.S. ..... Nov. 32FF**
Lead ..... Mar. 49
Leader of the Pack ..... May 34
Liebherr restructures U.S. product operating units ..... May 32LL**
Mackay School of Mines' Burrus laboratory meets needs of industry. ..... Apr. 32JJ**
Magnesium ..... Mar. 50
Manganese ..... Mar. 52
Metal and nonmetal deaths rise, coal mine deaths drop in 1997 ..... Feb. 56EE**
Mine operators use Internet to comply with MSHA ..... May 32KK**
Mine safety chief asks for resources to combat fatalities, black lung ..... May 32BB**
Mine Safety ..... May 32GG**
Mineral Policy Center ..... Nov. 32D*, 32BBB**
Minewater treatment solution awarded. ..... July 32DD**
Mining Caucus Sets Education Goal ..... June 32RR**
Mining Community Notified of Breathing Device Problems ..... June 32BB**
Mining exhibit needs volunteers. ..... Mar. 32LL**
Mining industry protective of wildlife ..... Nov. 32AA**
Mining moratorium moves a step closer in Wisconsin ..... Apr. 32FF**
Mining Renaissance in Africa. ..... Sept. 32C*, 32AA**
Mining Representatives Respond to Wildlife Federation ..... June 32BB**
Mining salary and wage survey results released ..... Aug. 32D*, Aug. 32EE**
MMSA awards student authors. ..... Feb. 56FF**
Molybdenum ..... Mar. 54
MSHA alerts mining industry on drowning deaths at mine sites ..... Jan. 32CC**
MSHA alerts underground coal mining operations of increased roof-fall fatalities . ..... Aug. 32A* Aug. 32EE**
MSHA automates enforcement with laptop computers ..... Sept. 32GG**
MSHA, Florida Canyon reach agreement on health violations ..... Jan. 32CC**
MSHA now accepting required data online ..... Mar. 32JJ**
MSHA promoting use of video cameras. ..... Sept. 32GG**
MSHA proposal exceeds authority in illness reporting policy ..... Mar. 32BB**
MSHA proposes rule to reduce diesel particulate exposure ..... July 32A*
MSHA proposes rules to protect health of mine workers ..... Dec. 16BB**
MSHA to get emergency vehicle ..... Dec. 16NN**
Mucking teams take first and second place ..... Dec. 16OO**
Murkowski, Craig, Reid, BryanNov. 32HH**
National Waterways Conference ... Jan. 32B*
Nevada governor receives mining tribute . ..... Dec. 16OO**
New Brooks Range Geophysical Survey Released ..... July 11
New gemstone occurrences found. ..... May 32KK**
New map of U.S. mines introduced ..... Dec. 16PP**
New surface coal mine rulemaking approach starts with ownership and control regulations ..... Feb. 56JJ**
Newmont dedicates facility to late chairman ..... Mar. 32BB**
Nice guys do finish last ..... Sept. 32GG**
Nickel ..... Mar. 55
NMA forecasts all-time coal records ..... Apr. 32C*
NMA, MSHA honor mines with best safety records ..... Oct. 16HH**
North Dakota, Lignite Energy Council, NMA ask for judicial review Dec. 16NN**
Northwestern creates engineering-law program ..... May 32LL**
P&H Mining continues to promote responsible mining ..... Apr. 32NN**
Patriot mine receives Kentucky reclamation award ..... Mar. 32LL**
Peabody Coaltrade Joins Coal Swap. ..... June 32B*
Peabody Western Reduces Jobs ..... Jan. 32B*

E&MJ ANNUAL INDEX 1998

.....June 32B*
Pegasus Outlines Survival Plan .....May 18
Pennsylvania Supreme Court denies appeal in coalbed methane recovery case. .....Aug. 32A*
Pennsylvania team takes first place in contest .....Jan. 32DD**, 32C*
PGM Group.....Mar. 59
Phelps Dodge Cuts Cu Output .....Dec. 14
Phosphate Rock .....Mar. 42
Placer Dome's View on Gold.....June 10
Polishing the Silver .....Mar. 13
Radomiro Tomic .....Mar. 30
Randol Gold and Silver Forum '98.....June 26
Record U.S. coal production tops 1B st again.....Sept. 32G*
Sage Mill .....Jan. 20
Salaries lag behind inflation ...Sept. 32HH**
Savage Resources Tripling Clarksville Refinery to 300K mt/yr Zinc.....July 12
SDSM&T student wins $2,000 scholarship .....Feb. 56J**
A Second Down Under .....Nov. 32J*, 32KKK**
September U.S. steel shipments up 9.2% from 1996 .....Jan. 32DD**
Shrinking 'The Big Australian' .....Aug. 14
The Shutdown of the U.S. Bureau of Mines .....May 32QQ**
Silver .....Mar. 62
SIUC wins grant from Clean Coal Institute .....Jan. 32B*, Feb. 56EE**
SME Awards UMR's Lee Saperstein .....June 32TT**
Soda Ash .....Mar. 64
South African mine inspectors to get crash course in U.S. mine safety practices. .....Sept. 32HH**
State of Alaska Funds Airborne Geophysics .....July 10
Stillwater.....Dec. 20
Storage of coal mine methane increases profits .....Sept. 32F*
Task Force Promotes Mexican Mine Development .....Oct. 12
The Cresson Project .....June 32KK**
The Original Sixteen to One Mine, Inc. .....June 39
Thyssen Schachtbau GmbH fined in fatal Virginia coal mining accident .....Apr. 32FF**, June 32A*
Titanium .....Mar. 40
Tungsten .....Mar. 66
Two mining leaders take museum posts .....Nov. 32AA**
U.S. Borax's Boron operations celebrates 1M safe hours.....Aug. 32HH**
U.S. coal mine fatalities at record low in 1997 .....Mar. 32B*
U.S. Coal Mine Receives Environmental Award.....Oct. 16D*
U.S. District Court ruling favors mining industry 32HH**
U.S. Labor Dept. renews push to end silicosis.....Jan. 32CC**
U.S., Utah to swap land.....July 32DD**
U.S.-Mexico Chamber forms new task force for mining industry.....July 32DD**
UMR student receives Copper Club scholarship .....Apr. 32JJ**
UMWA, NMA seek to head off new NO_X rulemaking.....Oct. 16HH**
University of Idaho releases worldwide mining operations demo .....Aug. 32HH**
Uranium.....Mar. 68
WAAIME awards 60 scholarships. .....Sept. 32PP**
Who Owns Whom in Mining 1998. .....Sept. 34
WIM accepts Prazen Award Dec. 16OO**
World-Class Competitive .....Apr. 35
Worldwide Exploration Trends .....July 40
Wyoming Mining Assn. awards scholarship .....Mar. 32LL**
ZCCM's Rocky Road to Privatization .....May 14
Zinc .....Mar. 71

URUGUAY
Gold.....Mar. 36
World-Class Competitive .....Apr. 39

USSR/CIS
Phosphate Rock.....Mar. 45

UZBEKISTAN
Exploration Roundup .....June 7
Gold.....Mar. 37
Molybdenum .....Mar. 55
Tungsten.....Mar. 66
Uranium .....Mar. 69

VENEZUELA
Argentina Mining '98 Puts Mendoza on the Map .....Mar. 22
Coping with Lower Gold Prices.....Apr. 20
Iron and Steel .....Mar. 76
Placer Dome's View on Gold.....June 10
World-Class Competitive .....Apr. 39

ZAIRE
Copper.....Mar. 34

ZAMBIA
Cobalt.....Mar. 39
Copper.....Mar. 34
Exploration Roundup.....Sept. 8
A Second Down Under .....Nov. 32J*, 32KKK**
Who Owns Whom in Mining 1998. .....Sept. 34
ZCCM's Rocky Road to Privatization .....May 14

ZIMBABWE
Kinross-Amax Gold Merger Creates a Major Industry Player.....Apr. 17
Mining Renaissance in Africa. .....Sept. 32C*, 32AA**
PGM Group .....Mar. 60
Shrinking 'The Big Australian' .....Aug. 14
Worldwide Exploration Trends .....July 40

COMMODITIES

ALUMINUM
1998 Engineering and Mining Project Survey.....Jan. 15
Aluminum .....Mar. 46
Bajo de la Alumbrera .....May 46
Expanding Smelter Capacity .....Apr. 20
The Glass Half-Full or Half-Empty. .....May 97
The South African Mining Industry. .....Apr. 42, 43

ANTIMONY
Ranking Polymetallic Projects .....June 35
Sunshine Mine .....Feb. 46
The South African Mining Industry. .....Apr. 42
Who Owns Whom in Mining 1998 Sept. 34
Will new antimony sources reduce China's domination? .....Jan. 47

ARSENIC
Exploration Roundup.....Feb. 15
Randol Gold and Silver Forum '98...June 30
Ranking Polymetallic Projects .....June 35
Sage Mill .....Jan. 20
Sunshine Mine.....Feb. 48

ASBESTOS
Nugget Pond Mine .....Apr. 46
Last asbestos mine in the U.S. .....Nov. 32FF**

BARITE
Depth to Bedrock in West-Central Nevada .....June 32FF**
Leader of the Pack .....May 38

BAUXITE
Exploration Roundup.....Aug. 10
U.S. Borax's Boron operations celebrates 1M safe hours.....Aug. 32HH**
Who Owns Whom in Mining 1998. .....Sept. 34

BISMUTH
Ranking Polymetallic Projects .....June 35

BROMINE
Bromine capacity expands to keep pace with comsumption .....Jan. 47

CARBON
Nugget Pond Mine.....Apr. 49
Randol Gold and Silver Forum '98. .....June 28
Sage Mill .....Jan. 20

CHROMITE
Exploration Roundup .....Apr. 11
The South African Mining Industry. .....Apr. 42
Who Owns Whom in Mining 1998. .....Sept. 34

CHROMIUM
Ferro-alloy supply and demand in the CIS .....Jan. 47

COAL
67 dead in Russian mine blast ....Jan. 32B*
AfriOre expands coal holdings..Oct. 16D*
After Kyoto .....Oct. 16A*, 16AA**
ALPM at Asarco's Mission Complex. .....May 62
Arch acquires ARCO coal assets .....Aug. 32A*
Arch Coal Acquires Arco's U.S. Coal Operations.....June 32A*
Bulgaria's Mining Industry to Become More Efficient .....June 32A*
Cardinal River Coals receives approval for Cheviot mine.....Sept. 32G*
Celtic Energy and Glencore join WCI .....Oct. 16D*
China's Two Major Modern Coal Projects .....May 32A*
Coal miners, companies reach deal. .....Jan. 32B*
Coal mines to get help with safety standard compliance.....Jan. 32DD**
Coal mining community notified of problem in breathing device.....Jan. 32C*
Coal .....Mar. 47
CSM to offer mine safety and health training .....Feb. 56EE**
David A. Zegeer Coal Railroad Museum opens.....Aug. 32D* Aug. 32EE**
Device to monitor coal mine dust gets underground test.....Sept. 32F*
DOE funds R&D university projects. .....Sept. 32F*
Effort to end black lung forms U.S.-wide mine sweep.....Mar. 32B*
Europe's Biggest Mine Rehabilitation Project .....Feb. 42
Flexible policy, early credit keys to curbing energy emission .....Feb. 56FF**
Greenfields buys abandoned coal ponds, land.....July 32A*
Greenfields Coal Co. initiates ISO 14000. .....Jan. 32C*
Hall of Fame award goes to Jacobs Ranch mine .....Aug. 32D*
Haulage Quality .....Dec. 29
Industrial commission approves two R&D projects .....July 32B*
Kennecott Energy reaches agreement to purchase Jacobs Ranch .....Sept. 32G*
Kyoto Protocol ratification will bring economic gloom to U.S...Aug. 32A*, Mar. 47
Luscar Becomes Canada's Largest Coal Producer .....Nov. 32P*
Metal and nonmetal mine deaths rise, coal mine deaths drop.....Feb. 56EE**
Mine safety chief asks for resources to combat fatalities, black lung .....May 32BB**
Mine Safety .....May 32GG**, 32HH**
Mining Caucus Sets Education Goal. .....June 32RR**
Mining Renaissance in Africa. .....Sept. 32C*, 32AA**
Mining salary and wage survey results released.....Aug. 32D*, Aug. 32EE**
MSHA alerts underground coal mining operations of increased roof-fall fatalities . .....Aug. 32A* Aug. 32EE**
MSHA proposes rule to reduce diesel particulate exposure.....July 32A*
MSHA to help U.S. coal mines with safety standard compliance .....Jan. 32C*
National Waterways Conference Jan. 32B*
New map of U.S. mines .....Dec. 16PP**
New surface coal mine rulemaking approach starts with ownership and control regulations .....Jan. 32C*, Feb. JJ**
NMA forecasts all-time coal records. .....Apr. 32C*
North Dakota, Lignite Energy Council, NMA ask for judicial reviewDec. 16NN**
Peabody Coaltrade Joins Coal Swap. .....June 32B*
Peabody Western Reduces Jobs .....June 32B*
Pennsylvania Supreme Court denies appeal in coalbed methane recovery case. .....Aug. 32A*
Pennsylvania team takes first place in mine rescue contest.....Jan. 32DD**
Proposal to constitute Ingwe and Trans-Natal as wholly owned subsidiaries of Billiton .....Sept. 32G*
Quinette Coal Concludes New Five-Year Operating ArrangementsJune 32B*
Record U.S. coal production tops 1B st again.....Sept. 32G*
Rheinbraun Increases Involvement Abroad .....June 32A*
Shrinking 'The Big Australian' .....Aug. 14
SIUC wins grant from Clean Coal Institute .....Jan. 32B*; Feb. 56EE**
Stabilization measures for Russian coal industry dominate conference .....July 32A*
Storage of coal mine methane increases profits .....Sept. 32F*
The South African Mining Industry. .....Apr. 41
Thyssen Schachtbau fined in fatal Virginia accident .....Apr. 32FF**, June 32A*
To Contrarians, Indonesia Still Glitters .....Dec. 12
U.S. coal mine fatalities at record low in 1997 .....Mar. 32B*
U.S. Coal Mine Receives Environmental Award.....Oct. 16D*
UMWA, NMA seek to head off new NO_X rulemaking.....Oct. 16HH**
Underground gasification project produces water gas with high hydrogen content .....Apr. 32D*
World mining companies turn to outsourcing for competitive edge .....Jan. 32C*

COBALT
Australian Nickel-Cobalt Project Changes Hands.....Sept. 15
Cobalt .....Mar. 38
Exploration Roundup. .....Feb. 14; May 8; June 6; Oct. 10
Inco Focuses on Low-cost Nickel Projects .....Jan. 10
Mining Renaissance in Africa. .....Sept. 32C*, 32AA**
The South African Mining Industry..Apr. 42
Stillwater .....Dec. 20
Who Owns Whom in Mining 1998 .Sept. 34
Worldwide Exploration Trends.....July 40
ZCCM's Rocky Road to Privatization .....May 14, 15

COPPER
1998 Engineering and Mining Project Survey.....Jan. 15
Argentina Mining '98 .....Apr. 18
Argentina Puts Emphasis on Mining .....Apr. 17
Asarco enters compliance initiative agreement with EPA.....Mar. 32BB**
Bajo de la Alumbrera .....May 46, 47, 48, 49, 50, 52, 54
Boliden Expands its Presence .....Mar. 13
Coping with Lower Gold Prices.....Apr. 20
Copper .....Mar. 34
Depth to Bedrock in West-Central Nevada .....June 32FF**
Design Features of an 8,000-kW SAG Mill .....Feb. 36
An El Niño Drubbing .....May 16, 18
Ernest Henry Starts Up in Queensland .....May 23
Exploration Roundup .....Feb. 14; Mar. 10; ..Apr. 11; May 8; June 6; Aug. 10; Oct. 10
Finnminers.....Oct 18
Freeport Revises Operating Plan. .....May 18
Future of South American Exploration Rosy .....Apr. 18
The Glass Half-Full or Half-Empty ..May 97
GPS — Now for Excavation.....July 34
Haulage Quality .....Dec. 28
Leader of the Pack .....May 34
Material Handling Considerations ....Feb. 52
Mining moratorium moves a step closer in Wisconsin.....Apr. 32FF**
Mining Renaissance in Africa. .....Sept. 32C*, 32AA**
Newcrest Readies Cadia Project—1998 Startup .....May 20, 22
Options for Hedging Mine Planning Scenarios .....June 36; July 46
Peru's Privatization Continues.....Aug. 14
Phelps Dodge Cuts Cu Output.....Dec. 14
Radomiro Tomic.....Mar. 28
Ranking Polymetallic Projects .....June 34
A Second Down Under .....Nov. 32J*, 32KKK**
Shrinking 'The Big Australian' ....Aug. 14
Stillwater.....Dec. 20
Substantial Reductions of Bullion Stocks in 1997 .....July 81
Sunshine Mine.....Feb. 46
Swedish Exploration & Mining in 1997. .....July 50
The South African Mining Industry. .....Apr. 42, 43
To Contrarians, Indonesia Still Glitters .....Dec. 12
Who Owns Whom in Mining 1998.Sept. 34
World-Class Competitive .....Apr. 35
Worldwide Exploration Trends .....July 40
ZCCM's Rocky Road to Privatization .....May 14

DIAMOND
Ashton Raising $A70M for Diamond

Projects ..... Aug. 14
Diamonds from the Far North ..... Aug. 34
Divik Joint Venturers Outline Project Planning ..... May 22
Exploration Roundup ..... Feb. 14; Apr. 11; May 8
Mining Renaissance in Africa ..... Sept. 32C*, 32AA**
New gemstone occurrences found. ..... May 32LL**
The South African Mining Industry ..... Apr. 41
Swedish Exploration & Mining in 1997. ..... July 50
Who Owns Whom in Mining 1998 ..... Sept. 34
Worldwide Exploration Trends ..... July 40
ZCCM's Rocky Road to Privatization. ..... May 15

DIATOMITE
Depth to Bedrock in West-Central Nevada ..... June 32FF**

FERRO ALLOYS
The South African Mining Industry ..... Apr. 41

FERROCHROME
The South African Mining Industry. ..... Apr. 42

FERROUS METALS
1998 Engineering and Mining Project Survey ..... Jan. 15
Ferro-alloy supply and demand in the CIS ..... Jan. 47
Nordberg Expands ..... Feb. 43

FLUORSPAR
Depth to Bedrock in West-Central Nevada ..... June 32FF**

GALENA
Leader of the Pack ..... May 40
Sunshine Mine ..... Feb. 46

GOLD
100 mt Au for the Millennium ..... July 12
1998 Engineering and Mining Project Survey ..... Jan. 15
Anglogold/Anglo American Form Ventures with Barrick ..... Nov. 9
Argentina Mining '98 ..... Apr. 18
Argentina Puts Emphasis on Mining ..... Apr. 17
Australian Nickel-Cobalt Project Changes Hands ..... Sept. 15
Bajo de la Alumbrera ..... May 46
Battle Mountain recognized for public education role ..... Feb. 56E**
Bear calls gold a Dog ..... Mar. 158
Being a Junior in Nevada ..... Jan. 10
Boliden Expands its Presence ..... Mar. 13
Bre-X CEO Follows Geologist ..... July 16
Bre-X: The Lure of False Gold ..... June 42
China Lowers Domestic Gold Purchase Price ..... Sept. 18
Companies to pay millions in settlement of suits at Montana historic mining sites. ..... Oct. 16HH**
Coping with Lower Gold Prices ..... Mar. 16; Apr. 20
The Cresson Project ..... June 32KK**
Depth to Bedrock in West-Central Nevada ..... June 32EE**
Figuring Out China's Gold Production Costs ..... Sept. 16
Freeport Revises Operating Plan ..... May 18
Future of South American Exploration Rosy ..... Apr. 18
Design Features of an 8,000-kW SAG Mill ..... Feb. 36
An El Niño Drubbing ..... May 18
Ernest Henry Starts Up in Queensland. ..... May 23
Exploration Downhill from Here On ..... Jan. 10
Exploration Roundup ..... Jan. 9; Feb. 14; Mar. 10; Apr. 14; May 8; June 6; Aug. 10; Sept. 8; Oct. 10, Nov. 6
Franco-Nevada Buys Stake in Voisey's Bay ..... Dec. 14
Fundamentals Still Apply ..... Aug. 79
The Glass Half-Full or Half-Empty ..... May 97
Gold ..... Mar. 35
Gold Mines in Ghana ..... June 10
Gold nugget that sparked the Gold Rush returns to California. ..... Mar. 32BB**
Gold Third-Quarter 1998 Review Released ..... Nov. 113
Kinross-Amax Gold Merger Creates a Major Industry Player ..... Apr. 17
Mackay School of Mines' Burrus laboratory meets needs of industry ..... Apr. 32JJ**
Material Handling Considerations. ..... Feb. 52
Mining Renaissance in Africa. ..... Sept. 32C*, 32AA**
Mining Representatives Respond to Wildlife Federation ..... June 32BB**
New Brooks Range Geophysical Survey Released ..... July 11
Newcrest Readies Cadia Project—1998 Startup ..... May 20
Nordberg Expands ..... Feb. 43
Nothing is Impossible if it has Happened Before. ..... Mar. 13
Nugget Pond Mine ..... Apr. 46
The Original Sixteen to One Mine, Inc. ..... June 39
Pegasus Outlines Survival Plan ..... May 18
PGM Supply and Demand Feb.83
Placer Dome's View on Gold ..... June 9
Randol Gold and Silver Forum '98 ..... June 26
Ranking Polymetallic Projects ..... June 34
Resuing Shrinkage Stoping ..... Oct. 34
Robust Silver Demand Leads to Substantial Reductions of Bullion Stocks in 1997. ..... July 81
Russia to Lend Gold to Market ..... Oct. 13
Sage Mill ..... Jan. 20
São Bento: Eldorado's Crown Jewel ..... Oct. 28
A Second Down Under ..... Nov. 32J*, 32KKK**
Stillwater ..... Dec. 20
Swedish Exploration & Mining in 1997 .... July 50
The South African Mining Industry ..... Apr. 41
To Contrarians, Indonesia Still Glitters ..... Dec. 12
Truth Without Digging ..... Aug. 14
Vulcan Software Systems ..... July 32NN**
Who Owns Whom in Mining 1998. Sept. 34
Wings of Pegasus Clipped ..... Feb. 18
Worldwide Exploration Trends ..... July 40

GYPSUM
Depth to Bedrock in West-Central Nevada ..... June 32FF**
Sales of Byproduct Gypsum Jump 26% .... June 65

IRON
1998 Engineering and Mining Project Survey ..... Jan. 15
Bajo de la Alumbrera ..... May 46
CSM to offer mine safety and health training ..... Feb. 56EE**
Depth to Bedrock in West-Central Nevada ..... June 32FF**
Design Features of an 8,000-kW SAG Mill ..... Feb. 36
Exploration Roundup ..... May 12
Iscor Joins Hancock on Hope Downs Iron Ore Project ..... Mar. 18
Nordberg Expands ..... Feb. 43
Sage Mill ..... Jan. 20
The South African Mining Industry. Apr. 42
Swedish Exploration & Mining in 1997 .... July 50
Who Owns Whom in Mining 1998. ..... Sept. 34
Worldwide Exploration Trends ..... July 40

LEAD
1998 Engineering and Mining Project Survey ..... Jan. 15
Asarco enters compliance initiative agreement with EPA ..... Mar. 32BB**
An El Niño Drubbing ..... May 18
Exploration Roundup ..... Jan. 9; Feb. 14; Apr. 11; May 12; June 6; Aug. 10; Oct. 10
The Glass Half-Full or Half-Empty. May 97
Lead ..... Mar. 49
Leader of the Pack ..... May 35
Peru's Privatization Continues ..... Aug. 14
Ranking Polymetallic Projects ..... June 34
The South African Mining Industry ..... Apr. 42
Sunshine Mine ..... Feb. 46
Swedish Exploration & Mining in 1997. .... July 50
Who Owns Whom in Mining 1998. ..... Sept. 34
Worldwide Exploration Trends ..... July 40

LITHIUM
Argentina Mining '98 ..... Apr. 18
Bajo de la Alumbrera ..... May 48

MAGNESIUM
Magnesium ..... Mar. 50

MAGNETITE
Exploration Roundup ..... Apr. 11; May 12
Randol Gold and Silver Forum '98 .. June 30

MANGANESE
Ferro-alloy supply and demand in the CIS. Jan. 47
Manganese in Demand at Last ..... Sept. 75
Manganese ..... Mar. 52
The South African Mining Industry . Apr. 42
Who Owns Whom in Mining 1998 . Sept. 34
World-Class Competitive ..... Apr. 36

MOLYBDENUM
Bajo de la Alumbrera ..... May 48
Boliden Expands its Presence ..... Mar. 13
Exploration Roundup ..... May 8
Haulage Quality ..... Dec. 28
Molybdenum Mar.54
Who Owns Whom in Mining 1998. ..... Sept. 34
World-Class Competitive ..... Apr. 36

NICKEL
Australian Nickel-Cobalt Project Changes Hands ..... Sept. 15
Exploration Roundup ..... Feb. 14; Oct. 10
Finnminers ..... Oct. 18
Franco-Nevada Buys Stake in Voisey's Bay ..... Dec. 14
Inco Focuses on Low-cost Nickel Projects ..... Jan. 10
Mining Renaissance in Africa. ..... Sept. 32C*, 32AA**
Negotiating Impasse Halts Voisey's Bay Development ..... Sept. 15
Nickel ..... Mar. 55
PGM Supply and Demand ..... Feb. 83
The South African Mining Industry ..... Apr. 42
Stillwater ..... Dec. 20
Stobie Signals Shotcrete Success ..... Aug. 42
Timely Review of Russian Nickel Industry . ..... Nov. 113
Who Owns Whom in Mining 1998 . Sept. 34
Worldwide Exploration Trends ..... July 40

PHOSPHATE
Bajo de la Alumbrera ..... May 54
An El Niño Drubbing ..... May 16
Phosphate Rock ..... Mar. 42

PLATINUM GROUP METALS
Changes in Platinum, Palladium Markets.. ..... Nov. 113
Franco-Nevada Buys Stake in Voisey's Bay ..... Dec. 14
Fundamentals Still Apply ..... Aug. 79
Mining Renaissance in Africa. ..... Sept. 32C*, 32AA**
PGM Group ..... Mar. 58
PGM Supply and Demand ..... Feb. 83
The South African Mining Industry ..... Apr. 41
Stillwater ..... Dec. 20
Who Owns Whom in Mining 1998. ..... Sept. 34
Worldwide Exploration Trends ..... July 40

POTASH
Argentina Mining '98 ..... Apr. 18
Leader of the Pack ..... May 40

POTASSIUM
Bajo de la Alumbrera ..... May 46

SILVER
Argentine Silver Project Accelerated. ..... Apr. 20
Bajo de la Alumbrera ..... May 50
Boliden Expands its Presence ..... Mar. 13
Depth to Bedrock in West-Central Nevada ..... June 32FF**
Exploration Roundup ..... Jan. 9; Feb. 14; Apr. 11; May 8; June 6; Aug. 10; Oct. 10, Nov. 6
Fundamentals Still Apply: ..... Aug. 79
The Glass Half-Full or Half-Empty ..... May 97
Kinross-Amax Gold Merger Creates a Major Industry Player ..... Apr. 17
Leader of the Pack ..... May 37
Material Handling Considerations ... Feb. 52
MSHA, Florida Canyon Mining reach agreement on health violations ..... Jan. 32CC**
Nugget Pond Mine ..... Apr. 49
Peru's Privatization Continues ..... Aug. 14
Polishing the Silver ..... Mar. 13
Randol Gold and Silver Forum '98. ..... June 26
Ranking Polymetallic Projects. ..... June 34
Robust Silver Demand Leads to Substantial Reductions of Bullion Stocks in 1997. ..... July 81
A Second Down Under ..... Nov. 32J*, 32KKK**
Silver ..... Mar. 62
Stillwater ..... Dec. 20
Sunshine Mine ..... Feb. 46
Swedish Exploration & Mining in 1997 .... July 50
The Truth about Silver in India ..... June 65
Who Owns Whom in Mining 1998. ..... Sept. 34
Wings of Pegasus Clipped ..... Feb. 18
Worldwide Exploration Trends ..... July 40

SODA ASH
Soda Ash ..... Mar. 64

SODIUM
Bajo de la Alumbrera ..... May 46
Sunshine Mine ..... Feb. 47

STEEL
1997 steel shipments at highest level since 1974 ..... Apr. 32JJ**
AISI launches project ..... Apr. 32FF**
Bajo de la Alumbrera ..... May 52
Coated Steel Production ..... May 97
Iron and Steel. Mar. 74
Newcrest Readies Cadia Project .... May 20
NMA forecasts all-time coal records . ..... Apr. 32D*
Quinette Concludes New Five-Year Operating Arrangements ..... June 32B*
September U.S. steel shipments up 9.2% from 1996 ..... Jan. 32DD**
World-Class Competitive ..... Apr. 38

SULPHUR
Pumping Up the Oil ..... May 16
Randol Gold and Silver Forum '98. ..... June 28
ZCCM's Rocky Road to Privatization ..... May 15

TIN
Argentine Silver Project Accelerated. ..... Apr. 20
Sunshine Mine ..... Feb. 46
Who Owns Whom in Mining 1998. ..... Sept. 34
Worldwide Exploration Trends ..... July 40

TITANIUM
Exploration Roundup ..... Jan. 9
Ranking Polymetallic Projects ..... June 35
The South African Mining Industry ..... Apr. 42
Titanium Metal Industry's Changing Face ..... Sept. 75
Titanium ..... Mar. 40
Who Owns Whom in Mining 1998. ..... Sept. 34

TUNGSTEN
Depth to Bedrock in West-Central Nevada ..... June 32FF**
Exploration Roundup ..... May 12
Tungsten ..... Mar. 65

URANIUM
Australian Uranium Development. ..Sept. 42
Europe's Biggest Mine Rehabilitation Project ..... Feb. 40
Exploration Roundup ..... Apr. 11
New map of U.S. mines ..... Dec. 16PP**
Swedish Exploration & Mining in 1997 .... July 50
Uranium ..... Mar. 68
Who Owns Whom in Mining 1998. ..... Sept. 34

VANADIUM
The South African Mining Industry ..... Apr. 42
Who Owns Whom in Mining 1998. ..... Sept. 34

WOLLASTONITE
Exploration Roundup ..... Apr. 11

ZINC
1998 Engineering and Mining Project Survey ..... Jan. 15
An El Niño Drubbing ..... May 18

*Appears in Copies outside North America
**Appears in copies within North America